



**McLaren<sup>®</sup>  
Hart**

ENVIRONMENTAL ENGINEERING CORPORATION

*Steve,*

*FY revised. Please  
advise on recommendation  
~ p4*

*Heidi  
Macy  
10/5/96*

September 27, 1996

Mr. Manny Galaviz  
Mobil Exploration and Producing U.S., Inc.  
10000 Ming Avenue  
Bakersfield, California 93311

**RE: ADDENDUM TO PHASE I REPORT (DATED SEPTEMBER 6, 1996) PREPARED FOR THE JALK  
FEE PROPERTY LOCATED AT 10607 NORWALK BOULEVARD, SANTA FE SPRINGS,  
CALIFORNIA (03.0601081.001.001)**

Dear Mr. Galaviz:

On September 11, 1996, McLaren/Hart conducted a review of agency files at the Los Angeles County Department of Public Health (LACDPH) for the subject Property identified above as well as for the Continental Heat Treating, Inc. (CHT) site located at 10643 Norwalk Boulevard. Two previous attempts (July 18 and September 13, 1995) to review the above referenced files were unsuccessful due to the LACDPH indicating no files existed. The following is a list by property of the items reviewed at the LACDPH. Photocopies of the files are provided as Attachments A and B to this letter.

***Jalk Fee Property located at 10607 Norwalk Boulevard:***

- ▶ ***Draft Subsurface Soil Investigation report for Jalk Fee property prepared by Levine-Fricke, dated December 6, 1991 (copy not included).***
- ▶ **Letter dated September 23, 1993, from McLaren/Hart to Mobil Exploration and Producing U.S., Inc. (Mobil) regarding McLaren/Hart's review of the Jalk Fee property Site Characterization Report prepared by Levine/Fricke.**

G:\MMOBIL\0601081\PHASE1.ADD

16755 Von Karman Avenue, Irvine, CA 92714 (714) 756-2667 FAX (714) 756-8460



Manny Galaviz  
September 27, 1996  
Page 2

- ▶ Letter dated September 30, 1993, from Mobil to the Santa Fe Springs Fire Department, regarding soil contamination identified on the Jalk Fee property.
- ▶ Los Angeles County Fire Department (LACFD) internal memo dated November 5, 1993, regarding a report sent to them by Mobil. According to the memo, "the report indicates a possible illegal discharge to soil from the PCE metal degreaser" located on the CHT property. The memo further states that this possible release warrants an inspection.
- ▶ Letter dated October 7, 1994, from Mobil to the Department of Toxic Substances Control (DTSC) regarding clarification of agency oversight at the Jalk Fee property.
- ▶ *Limited Subsurface Investigation of Tetrachloroethylene (PCE) Impacted Soil at Mobil Jalk Fee Property, Santa Fe Springs*, prepared by McLaren/Hart, dated November 15, 1994 (copy not included).
- ▶ Letter dated December 9, 1994, from Mobil to LACFD regarding the submittal of the tetrachloroethylene (PCE) investigation reports for the Jalk Fee property.

***Continental Heat Treating, Inc. located at 10643 Norwalk Boulevard:***

- ▶ Official Notice of Violation No. 042136 from the County of Los Angeles Department of Health Services dated March 16, 1984. CHT was directed to remove oil from the ground in the rear storage area of the property.
- ▶ Notice of Violation and Order to Comply dated 1989. CHT was directed to discontinue the disposal of "any waste oil onto the ground" and to "remove and legally dispose of the oily surface in the rear asphalted yard". The correction date was listed as May 19, 1989. CHT was also directed to "keep the lids and bungs on and not to overfill the hazardous waste drums" as well as to properly label all hazardous waste drums.
- ▶ LACDPH site inspection form dated October 6, 1994. According to the form, CHT was told to provide a corrective action plan for soil contamination by chlorinated hydrocarbon solvents for the area 120' west of the east wall and 30' south of the north wall no later than November 20, 1994.



- ▶ General Business Plan for CHT (not dated). The following hazardous materials/wastes were listed for the property:
  - ▶ 500-gallon oil tank/ 300-gallons waste oil stored in drums
  - ▶ 200-gallon PCE tank/ 300-gallons waste PCE stored in drums
  - ▶ 55-gallon drum of acetone
  - ▶ 250-gallon ammonia tank
- ▶ Material Safety Data Sheets (MSDS). MSDS for the following compounds:
  - anhydrous ammonia
  - perchloroethylene
  - quenching oil 15S
  - 2-propanone
- ▶ LACFD Case Synopsis of CHT dated October 19, 1995. The LACFD received a complaint from Mobil alleging CHT was responsible for all or part of the chlorinated VOC contamination on the Jalk Fee property. The complaint was referred to the Enforcement Unit for action on November 4, 1993. No enforcement activity by September 27, 1994, prompted a routine complaint inspection on October 6, 1994.

The long-time employees at CHT all denied any improper disposal, leaking or spillage of vapor degreasing solvents anywhere on the property. Although the vapor degreaser had been moved from its original location within the shop, it appeared that the "old location was close enough to the northern property line that leaks, sloppy operations or spills could have migrated offsite". This inspection resulted in NOV #P14042, which included an order to provide a corrective action plan for the old vapor degreaser area.

Three soil samples were taken from one boring immediately adjacent but exterior to the concrete sump of the old industrial vapor degreaser as part of a preliminary assessment. The results of the samples are summarized in the following table:

Boring Number	Depth (Feet)	Trichloroethylene (TCE) μg/kg	Tetrachloroethylene (PCE) μg/kg
B-1	0.5	4759	7514
B-1	5	21	290
B-1	10	66	1855



Manny Galaviz  
September 27, 1996  
Page 4

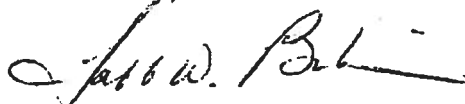
The LACFD felt these results were sufficient documentation of a significant release and warranted a remedial investigation of this area. A letter was sent to Mr. Stull (the owner of CHT) on July 5, 1995, requiring him to determine the extent of the contamination and to submit a site mitigation workplan. The LACFD received a workplan prepared by Green Environmental on October 11, 1995; the LACFD did not feel the workplan was adequate. There was no further information regarding what actions have been taken at the site.

According to a separate page, the CHT case was referred to the Solid Waste Management Unit (SMU) for oversight on June 29, 1995. The case number under SMU is #377.

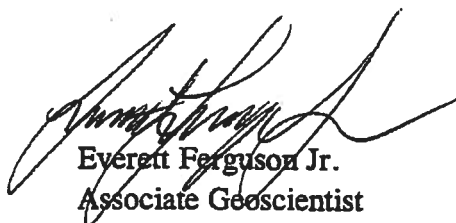
- ▶ LACFD caseworker notes dated 1989-1995. In July 1989, four drums of oil and absorbent were removed from the rear storage yard. According to the caseworker, the "facility has a continuing problem with mineral oil drag out on the asphalted area". According to a note made on October 25, 1995, SMU was still providing oversight for the hazardous material release at the site.

Based on the information McLaren/Hart reviewed at the LACDPH, there has been a documented release of chlorinated solvents at the CHT site within the vicinity of the PCE contamination discovered on the Jalk Fee property. According to the files, the LACFD SMU Division is handling the oversight of this hazardous materials release. McLaren/Hart recommends contacting the SMU Division to determine the current status of the CHT site and whether the vertical and horizontal extent of the contamination on the CHT site has been identified.

Sincerely,



Tabb W. Bubier  
Supervising Geoscientist



Everett Ferguson Jr.  
Associate Geoscientist

Attachments







# **Attachment A**

## ***Jalk Fee***





ENVIRONMENTAL ENGINEERING CORPORATION

August 8, 1996

Los Angeles County Health Services  
Public Health Investigation  
5555 Ferguson Drive, Suite 120-04  
Commerce, CA 90022

Attention: Haz-Mat Liaison

### REQUEST FOR PUBLIC INFORMATION

This letter is a request for public information regarding the following properties under the Freedom of Information Act. I would like to know if you have any current and/or historical records regarding hazardous material use/storage/releases and/or USTs on file for the specified addresses.

- ▶ Mobil Jalk Fee Property  
10607 Norwalk Blvd.  
Santa Fe Springs, CA 90670
- ▶ Continental Heat Treating, Inc.  
10643 Norwalk Blvd.  
Santa Fe Springs, CA 90670

*210643*  
*H-1077-96*

If you have any questions regarding this request, please contact me at (714) 752-3268.

Sincerely,

*Kristina Ikemori*  
Kristina Ikemori  
Associate Environmental Scientist



16755 Von Karman Avenue, Irvine, CA 92714 (714) 756-2667 FAX (714) 756-8460



**HAZ MAT**

**Los Angeles County  
Fire Department  
Prevention Bureau  
Hazardous Waste  
Control Program**

Log # [yynnnn]: 933143-117

Received by: LR Date: 11/4/93

Log entry by: LR Date: 11/4/93

☐ Emergency Response

☐ Illegal Storage

☒ Illegal Disposal Onsite

☐ Clean-up

☐ Illegal Disposal Offsite

☐ Public Health License

Name: Continental Heat Treating Phone: \_\_\_\_\_

Address: 10643 Norwalk City: Santa Fe Springs

Substance: Solvents Zip: 90670

Scope: Attached Report indicates possible  
illegal discharge into soil and air.  
Scan PCE metal degreaser  
Inspection.

Status: \_\_\_\_\_

Section Assign To: ☒ SGV ☒ SFV ☒ SSE ☐ SE ☐ OC ☐ OM ☐ ER ☐ ENF ☐ SM Date: \_\_\_\_\_

Inspector Assign To: GR Assign By: JR Date: 11-5-93

Service Requested By: LR

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

\_\_\_\_\_  
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# Request for Service

Los Angeles County  
Fire Department  
Prevention Bureau  
Hazardous Waste  
Control Program

Ref. No. 933143-117

Received by: LR Date: 11/4/93

Entry by: LR Date: 11/4/93

- ☐ Emergency Response ☐ Illegal Storage  
☒ Illegal Disposal Onsite ☐ Clean-up  
☐ Illegal Disposal Offsite ☐ Public Health License

Name: Continental Heat Treating Phone: \_\_\_\_\_

Address: 10643 Norwalk City: Santa Fe Springs

Solvents Zip: 90670

Scope: Attached Report indicates possible  
illegal discharge into subsurface  
from PCB metal degreaser. Warrant  
Inspection.

Station: \_\_\_\_\_

Section Assign To: ☐ SGV ☐ SFV ☒ SSE ☐ SB ☐ C ☐ M ☐ ER ☐ ENF ☐ SM Date: \_\_\_\_\_

Inspector Assign To: GB Assign By: Jr Date: 11-5-93

Service Requested By: LR

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

*You have  
a call  
(mp)*









# County of Los Angeles - Fire Department

Prevention Bureau

Hazardous Waste Control Program

## Facsimile Transmittal Sheet

To: Tom WALKER  
MDBH Dic

Phone: (310) 903 2725 FAX: (310) 903-2731

Date/Time: 17 0845 NOV 93

From: GEORGE F. BAKER

Hazardous Waste Control Program

7300 E. Alondra Blvd.

Paramount, Calif. 90732

Phone: (310) 790-1810

FAX: (310) 790-8002

Total number of PAGES, including this cover sheet 9

Comments: AS INDICATED

Site MIT Guidance for  
work plans



Exploration & Producing U.S. Inc.

10735 SOUTH SHOEMAKER AVENUE  
SANTA FE SPRINGS, CALIFORNIA 90670

September 30, 1993

Santa Fe Springs Fire Department  
Environmental Protection Division  
11300 South Greenstone Avenue  
Santa Fe Springs, CA 90670

Dear Sir or Madam:

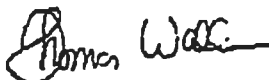
Mobil Oil Corporation ("Mobil") has learned that soil contamination exists at 10607 Norwalk Boulevard, Santa Fe Springs, California, a property owned by Mobil's affiliate, Mobil Foundation, Inc. (the "property").

Specifically, tests conducted by Mobil's environmental consultant demonstrate the presence of several contaminants in the soil, the primary ones of which are perchloroethylene, trichloroethylene and 1,2 dichloroethylene. Mobil believes that the primary contamination originates from an off-site source, Continental Heat Treating, Inc.

The enclosed letter by Mobil's environmental consultant summarizes the test results which Mobil will forward to you if you request. I may be reached at (310) 903-2725.

Mobil will be contacting the California Regional Water Quality Control Board on behalf of Mobil Foundation, Inc. to discuss further testing and cleanup of the property.

Very truly yours,



Tom Walker  
Environmental Engineer

cc: California Regional Water Quality Control Board, Region 4  
Department of Toxic Substances Control  
Environmental Protection Agency, Region 9

cc: [unclear]

Referred to Lance Balston LACo Health HAZ MAT SITE mitigation  
10/5/93 DK









September 23, 1993

Mr. T. M. Walker, P.E.  
Environmental Engineer  
Mobil Exploration and Producing U.S. Inc.  
10735 South Shoemaker Avenue  
Santa Fe Springs, CA 90670

**PERCHLORETHYLENE (PCE) AND HEAVY METALS IN SOIL AT THE JALK LEASE**

Dear Mr. Walker,

McLaren/Hart has completed our review of the site characterization report prepared by Levine/Fricke ("Draft Subsurface Soil Investigation, Jalk Fee Property, 10607 Norwalk Boulevard, Santa Fe Springs, California"). The report included data showing that the soil contains crude oil, which would be expected in an active oil field. The report also documented that the soil contains lead, which presumably leached from metal pipes in an area known as the "boneyard", and perchloroethylene (PCE), which we believe is a result of operations at the neighboring facility.

This letter briefly explains the significance of the findings which were presented in the Levine and Fricke report and makes recommendations on how Mobil should proceed.

**HEAVY METALS**

Total lead, mercury, and zinc were detected in the boneyard in the southwest corner of the property at maximum concentrations of 1,750, 34.1, and 10,000 milligrams per kilogram (mg/kg), respectively. These concentrations exceed the Total Threshold Limit Concentration (TTLC) of 1,000, 20, and 5,000 mg/kg. Soluble lead and zinc were also detected at maximum concentrations of 151 and 474 milligrams per liter (mg/l). These concentrations exceed the Soluble Threshold Limit Concentration (STLC) of 5 and 250, respectively. Samples exceeding the TTLC and STLC were found at both the three foot and the eight foot depths. No samples were collected below eight feet.

Although the lead samples were collected from random sample locations, it appears that the lead is confined to the northeast corner of the boneyard, representing approximately one third of the

STAFF/TERRELL/US.LTD

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MOBIL/STAMP



total surface area of the boneyard, approximately 6,100 square feet. Excavation of this area to a depth of eight feet would result in approximately 1,800 cubic yards of soil.

Since the data show that metal concentrations were increasing between 3 and 8 feet, it is reasonable to assume that the soil below 8 feet may contain metals exceeding the cleanup criteria. We recommend additional sampling below eight feet prior to excavation to define the vertical extent of heavy metals.

#### **PERCHLOROETHYLENE (PCE)**

Perchloroethylene and related compounds [trichloroethylene (TCE) and 1,2-dichloroethylene (DCE)] were detected in the soil at the Jalk Fee. These chlorinated compounds are used in such industries as dry cleaning, electronics, aerospace, and metal treating, but are not used in oil production. The maximum concentration of PCE in soil at the Jalk Fee is 2,500,000 parts per billion (ppb). The following sections describe the possible source of PCE at this location.

#### **Santa Fe Springs Fire Department Record Review**

In an attempt to identify possible sources of the PCE at the Jalk lease, McLaren/Hart reviewed the files at the Environmental Compliance Section of the City of Santa Fe Springs Fire Department. A written request to review the file on Continental Heat Treating was submitted by FAX on Tuesday, May 11, 1993 and the file was reviewed on Wednesday, May 12th. The following is a summary of the information in the file relevant to the PCE on the Jalk lease.

#### **Use of PCE at Continental Heat Treating**

The Continental Heat Treating facility was designed in 1968 and began operation in 1969. The facility drawings (Job # 6802, PE-1) dated August 20, 1968 showed a degreaser located approximately 120 feet west of the northeast corner of the building and 30 feet south of the northern wall of the building. A pipe trench was shown going from the degreaser to the north end of the building, just west of the electrical panel. The PCE on the Jalk lease was found in the area beginning exactly where the pipe trench left the building and continuing west to the northwest corner of the building. (See Figure 1)

In a letter to the City of Santa Fe Springs dated March 30, 1987, Continental Heat Treating reported that PCE was "used for cleaning of parts prior to heat treating." The hazardous material registration forms (February 15, 1993) reported an average PCE use of 125 gallons per day and a maximum daily use of 250 gallons per day. The Business Plan described a 500 gallon above ground PCE tank, although the location of this tank could not be determined from the information in the file.

STAFF/TERRELL.B.11/35.1.TD





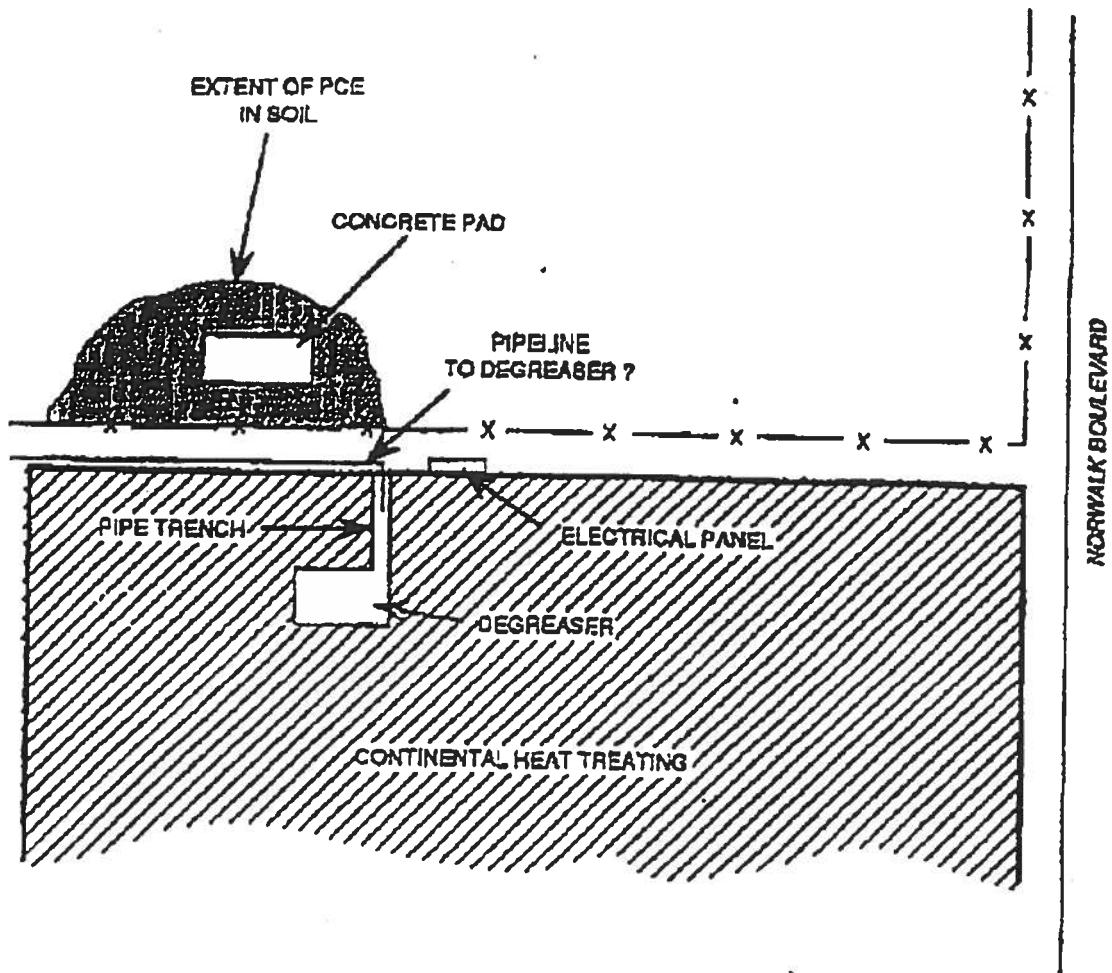


FIGURE 1  
DISTRIBUTION OF  
PERCHLOROETHYLENE (PCE) ON  
JALK LEASE NEAR CONTINENTAL  
HEAT TREATING DEGREASER

OWNER	SD	DATE	6-20-93
PROJECT	DXD	DATE	5-20-93
PROJECT NO.	10910	DATE	5-20-93
PROJECT NO.		DATE	
			89305114



#### Documented Annual PCE Waste Generation

The hazardous materials registration forms (February 15, 1993) reported that 1.5 tons of PCE are generated each year at the facility. In the March 30, 1987 letter to the City of Santa Fe Springs, Continental Heat Treating reported that the PCE was stored in a tank provided by Acto Kleen Corporation and was disposed by Acto Kleen for recycling.

#### Hazardous Waste Code Violations

Continental Heat Treating has operated under an Industrial Waste Permit from the Los Angeles County Sanitation District and predecessor agencies since the 1970's. Permit # 4365 was issued on January 27, 1970 and Permit #4827 was issued on November 18, 1976. These permits did not include limits or sampling requirements for PCE.

Various inspections, violations, and complaints over the years were included in the file. These included:

- ▶ A Notice was issued on July 11, 1978 from the LA County Engineer ordering Continental Heat Treating to "clean the interceptor by July 18, 1978" and "maintain the interceptor in good operating condition at all times."
- ▶ An inspection report of April 5, 1982 noted under "Special Hazards and Conditions" that a degreaser was present in the northeast portion of the building.
- ▶ A complaint to the Fire Department was recorded on October 5, 1987 that blue-green water was being discharged to the street. This was attributed to the recent earthquake (October 4, 1987) which had broken several pieces of equipment at the site and that "a discharge similar to that of December 8, 1986 was occurring."
- ▶ A Notice of Violation (NOV) was issued on February 23, 1988 for discharging cooling tower blow down water to the street.
- ▶ The Santa Fe Springs Fire Department cited Continental Heat Treating on June 14, 1988 for failure to disclose certain materials on the 1987 plot plan.

#### Possible Explanations

Illegal and accidental discharges of chlorinated solvents to soil are typically not reported and are not discovered until a site characterization is performed. The data from the Levine/Fricke report

MTAFPTIURULLRI1135.LTB





Mr. T.M. Walker  
September 22, 1993  
Page 5

showing PCE in the soil, the use of large quantities of PCE on the adjoining site, the location of the PCE in soil relative to the degreaser and pipe trench on the Continental facility, and the complete absence of any use of chlorinated solvents of any kind by Mobil E & P, very strongly points to Continental Heat Treating as the source of the PCE on the Jalk Fee.

The following possible explanations are based on the information we were able to find and on past experience with similar situations. We cannot say which of these explanations is most likely or whether there is another possible explanation for the observed PCE.

**Intentional or Unintentional Discharge.** One possible explanation is that PCE from the degreaser or from the above ground storage tank was discharged to the ground by an employee or contractor working on site. This could have resulted from any number of activities such as overflow, spillage, a broken pipe, or an intentional discharge of waste PCE.

**Fires.** Three degreaser fires were reported in the Continental Heat Treating file at the Santa Fe Springs Fire Department:

- ▶ Degreaser Tank Fire (Code 6205) 87/10/02;
- ▶ Fire in Degreaser (Code 6225) 88/04/09;
- ▶ Fire in Degreaser (Code 6229) 88/08/01.

**Earthquake.** The file made reference to two earthquakes (December 8, 1986 and October 4, 1987) that resulted in broken equipment and discharge of chemicals. Although these references were made to the cooling tower blowdown water, it is also possible that the piping between the degreaser and the PCE storage tank were among the "several pieces of equipment" that were damaged at the same time.

I would be happy to discuss this matter with you at any time. Please call me at (714) 752-3211 if you have any questions or requests for additional information.

Sincerely,



Dennis Dineen  
Managing Principal Geoscientist  
Assistant Regional Manager, Irvine

STAFFPETERBELL@135.LTB

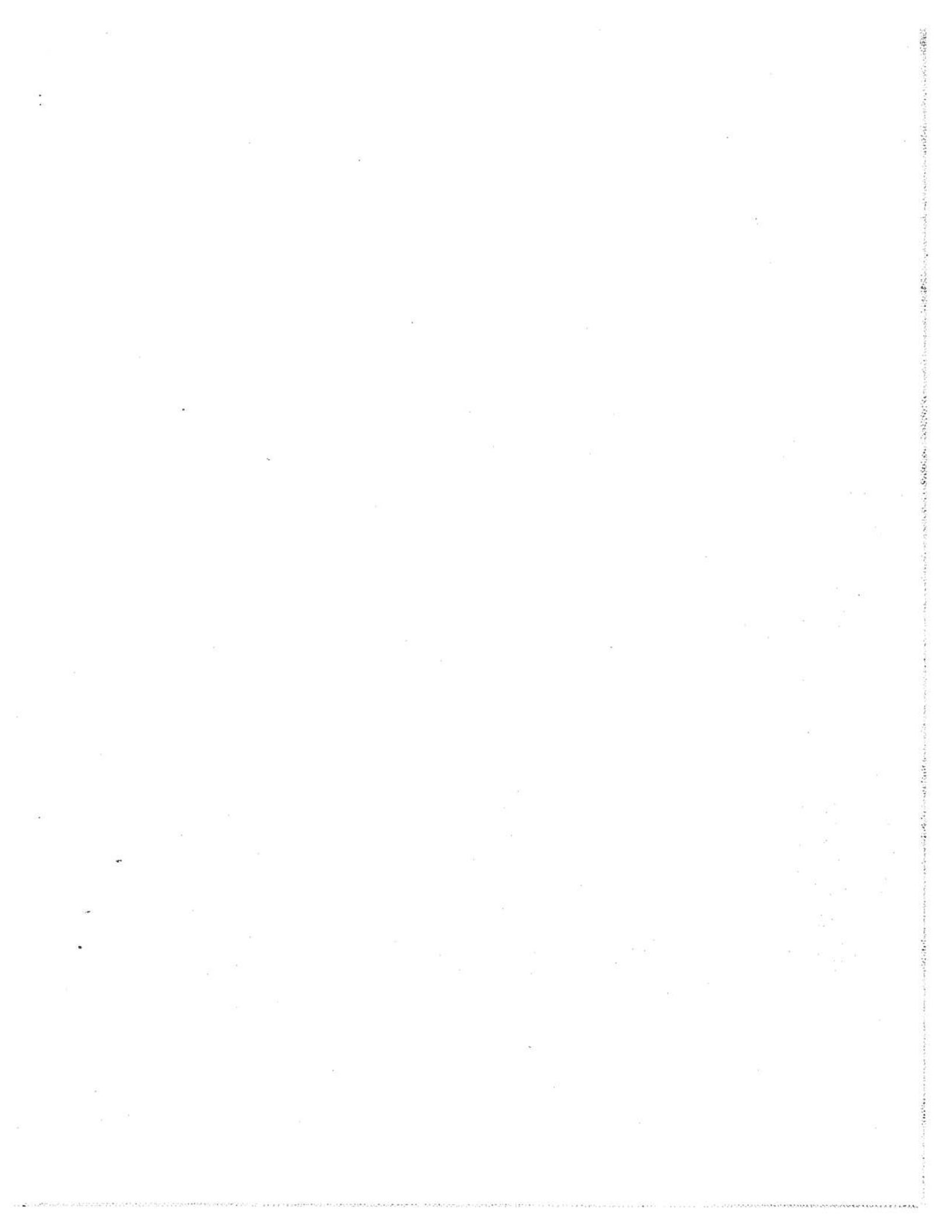


McClaren<sup>SM</sup>  
Hart

ENVIRONMENTAL ENGINEERING CORPORATION









C O M P A N Y / N A M E

MOBILE

or attach business card

Address <sup>or attach business card</sup> 10607 NORWALK BL

Phone (310) 575  
903-2725

**CASE UPDATE \ PHONE LOG**

Los Angeles County Fire Department

Hazardous Waste Control Program

Health Haz Mat Division

PHL 2 Code 225

[illegible]



# Mobil Exploration & Producing U.S. Inc.

*Received 10/12/94*

October 7, 1994

10735 SOUTH SHOEMAKER AVENUE  
SANTA FE SPRINGS, CALIFORNIA 90670

Mr. Miguel Z. Monroy, Dr. Env.  
Senior Hazardous Materials Specialist  
California Environmental Protection Agency  
Department of Health Services Control  
Site Mitigation Branch, Region 3  
1011 North Grandview Avenue  
Glendale, CA 91201

CLARIFICATION OF AGENCY  
OVERSIGHT - MOBIL JALK FEE  
10607 NORWALK BOULEVARD  
SANTA FE SPRINGS, CA

Dear Mr. Monroy:

This letter is intended to clarify agency oversight of Mobil's Jalk Fee property located at 10607 Norwalk Boulevard in Santa Fe Springs. We notified various agencies, including the Department of Toxic Substances Control (DTSC), the Los Angeles Regional Water Quality Control Board (LA RWQCB) and the City of Santa Fe Springs Fire Department of the presence of lead and perchloroethylene (PCE) in the soil at this property via correspondence dated September 30, 1993. The DTSC recommended the submittal of a Preliminary Endangerment Assessment (PEA) covering this property by way of a letter dated October 27, 1993. Mobil responded with a letter dated November 15, 1993 stating that we would work with the DTSC on both the lead and PCE issues.

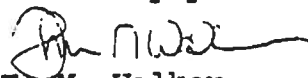
Subsequently, three ground water monitoring wells were positioned on the Jalk Fee property in preparation for construction of a crude oil bioremediation cell (located in the portion of the property not affected by lead and/or PCE contamination). Analysis of samples taken from one of these wells indicates the presence of PCE in the groundwater under this site. This information has been reported to the LA RWQCB through the quarterly monitoring report required by the LA RWQCB for operation of the crude oil bioremediation cell. Given that the groundwater beneath the site has been impacted, it is our understanding that the LA RWQCB will assume the lead agency oversight role regarding the PCE issue.



We are still working with the DTSC with regards to the lead contamination, as evidenced by our "Letter of Intent" submitted to the DTSC on August 8, 1994. Mobil, through McLaren/Hart (our environmental contractor) will be contacting you in the near future regarding the status of our voluntary cleanup agreement pertaining to lead contamination.

If you have any questions concerning this property, please call me at (310) 903-2725.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "T. M. Walker", with a stylized flourish at the end.

T. M. Walker  
Senior Environmental Engineer



**California Regional Water Quality Control Board  
Los Angeles Region  
101 Centre Plaza Drive  
Monterey Park, CA 91754-2156**

Mr. George Baker  
Hazardous Materials Specialist  
Health Hazardous Materials Section  
Inspection Section  
Los Angeles County Fire Department  
7300 East Alondra Blvd  
Paramount, CA 90723

Mr. Tabb Bubier  
Supervising Geoscientist  
McLaren/Hart  
16755 Von Karman Avenue  
Irvine, CA 92714

c:\jalk\_clr







# Mobil Exploration & Producing U.S. Inc.

10735 SOUTH SHOEMAKER AVENUE  
SANTA FE SPRINGS, CALIFORNIA 90670

December 9, 1994

Mr. George Baker  
Hazardous Materials Specialist  
Health Hazardous Materials Section  
Inspection Section  
Los Angeles County Fire Department  
7300 East Alondra Blvd  
Paramount, CA 90723

SUBMITTAL OF TETRACHLOROETHYLENE  
(PCE) INVESTIGATION REPORTS FOR  
THE MOBIL JALK FEE PROPERTY  
10607 NORWALK BOULEVARD  
SANTA FE SPRINGS, CALIFORNIA

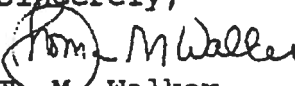
Dear Mr. Baker:

Enclosed are copies of the Levine Fricke and McLaren/Hart investigation reports for the tetrachloroethylene (PCE) contamination found at our Jalk Fee Property. I believe that these reports include the information you are looking for with regards to sampling protocol and lab results.

I would appreciate any information you could provide as to the status of the site investigation taking place on the Continental Heat Treating Inc. property. I would also like to receive a copy of the final report after the investigation has been completed.

Please let me know if you have any questions pertaining to the attached reports.

Sincerely,

  
T. M. Walker

Senior Environmental Engineer



cc: Mr. Jim Ross  
Unit Chief, Site Cleanup Unit  
California Regional Water Quality Control Board  
Los Angeles Region  
101 Centre Plaza Drive  
Monterey Park, CA 91754-2156

Mr. Miguel Z. Monroy, Dr. Env.  
Senior Hazardous Materials Specialist  
California Environmental Protection Agency  
Department of Health Services Control  
Site Mitigation Branch, Region 3  
1011 North Grandview Avenue  
Glendale, CA 91201

Mr. Tabb Bubier  
Supervising Geoscientist  
McLaren/Hart  
16755 Von Karman Avenue  
Irvine, CA 92714



*Prepared by:*

McLaren/Hart  
16755 Von Karman  
Irvine, California 92714-4918

November 15, 1994

**LIMITED SUBSURFACE INVESTIGATION OF  
TETRACHLOROETHYLENE (PCE) IMPACTED SOIL  
AT MOBIL JALK FEE PROPERTY  
SANTA FE SPRINGS, CALIFORNIA**







## **Attachment B**

# ***Continental Heat Treating Inc.***



# INSPECTION FILE



HAZ MAT

Prevention Bureau  
Hazardous Waste  
Control Program

Log # [yynnnn]: 933143-118

Received by: LR Date: 11/4/93

Log entry by: LR Date: 11/4/93

☐ Emergency Response

☐ Illegal Storage

☒ Illegal Disposal Onsite

☐ Clean-up

☐ Illegal Disposal Offsite

☐ Public Health License

Name: Continental Heat Treating

Phone:

Address: 10643 N. ...

City: Santa Fe Springs

Substance: Solvents

Zip: 90670

Scope: Attached Report indicates possible

illegal discharge into sub surface

Scan PCE metal detectors warrants

Inspection.

Status:

Section Assign To: ☐ SGV ☐ SFV ☒ SE ☐ SB ☐ C ☐ M ☐ ER ☐ ENF ☐ SM Date:

Inspector Assign To: GB

Assign By: JR

Date: 11-5-93

Service Requested By: LR

Address:

Phone:

for review  
in field  
(11/4)

11/4/93 Referred to enforcement for action

9/27/94 - no ENF Action - no inspection

10/6/94 - inspection - 25127 plan ordered

su SMU case



**LOS ANGELES COUNTY HEALTH DEPARTMENT**  
**Sanitation Division**  
**Permit Section**  
**Permit No. 10101101**

**Owner:** 11  
**Partner:**  
**Address:** 10643 S Alhambra Blvd  
**City:** Los Angeles  
**State:** CA  
**Zip:** 90044

**ACCOUNT NUMBER:** 091190  
**BUS CODE:** 101

**STATUS CHANGE**  
**CHANGE TO**

☒ **CANCEL ENTIRE ACCOUNT** (Reason below must be completed and signed)

**OWNER(S) NAME:** Para Plots  
**DBA NAME:**  
**MAIL ADD:**  
**BUS ADD:**  
**OTHER:** Code Fee

**REASON FOR CANCELLATION OR CHANGE. Use Account Number (s)**  
 03

**ADDITIONAL COLLECTIONS**  
 Additional Fee  
 Addition of Partner  
 Duplicate License  
 Site Transfer  
**Total**

**JAMES ODLING,**  
 Representative's Signature  
 District Code: 13  
 Date: 8/16/89  
 Address:  
 Phone: 268-4  
 Address:  
 Phone: 268-4

**Trade Name:** John Gannon  
**Sanitation:**

**LOS ANGELES COUNTY HEALTH DEPARTMENT**  
**BUREAU OF ENVIRONMENTAL SANITATION**  
**MISCELLANEOUS ESTABLISHMENT**

**Type Est:** Graphic Arts  
**Health Lic. No:** 091790/101  
**SIC - 3555**  
**Paid & Approved**

**W C H A R T**  
 hauler manifest number & date → disposal method / environmental fate  
**Storage:**  
**Size / For:**  
**EPA#:**  
**Don't touch per quarter**  
**Operating Hours:** 2:30 - 5:00  
**# of employees:** 36  
**Start Date:** 1/29/89  
**# of shifts:** 2  
**Permit No.:** 10101101

**Abatement:**  
☐ **Abatement**



**DBA** CONTINENTAL HEAT TREATING INC **Marked** DEE GRAMS

**Owner** 11 **Title** CONTROLLER

**Partner** **Start Date** 1-29 **# of employees** 36 **Operating Hours** 5a-7p

**Address** 10643 S NORWALK BL **# of shifts** 2 1/2 **Operating Hours** X 5.0

**City** S.F. **Zip Code** 94067

**Mailing** **Violation Rank** ☐ I ☐ II ☐ III

**Product / Service** ANNEALING SERVICE SPECIAL MACH **Waste Cat** 1 2 3 4

☐ HRF **Materials** **Amt (PGT)** **EPA#**

**# UST** **Size / For** **Quantity** **Storage**

**# AST** **Size / For**

**PROCESS FLOW CHART**

process & materials → hazardous waste & rate generated → storage method (drum/AST/UST) → hauler manifest number & date → disposal method / environmental fate

☐ Hearing ☐ Revisit ☐ Abatement

**Violations / Remarks**

**Signature(s)**



PRINT

COUNTY OF LOS ANGELES—PUBLIC HEALTH LICENSE APPLICATION

12/10/91

DL #

DATE BUSINESS STARTED

07 01 91  
MO DAY YR

ACCT. 606073

NAME(S)

CONTINENTAL HEAT TREATING IN  
LAST, FIRST AND MIDDLE INITIAL

LAST, FIRST AND MIDDLE INITIAL

CONTINENTAL HEAT TREATING IN  
10643  
BEGINNING NO.

1010  
BUSINESS CODE

ENDING NO.

FRACTION

S NORWALK BL  
DIR STREET

13  
DISTRICT CODE

SFS 90670  
CITY ZIP CODE

10643 S NORWALK BL  
NUMBER AND STREET

SANTA FE SPRINGS CA 90670  
CITY STATE ZIP CODE

HAZ WASTE CONTROL PROGRAM (36)

1944-B808

VEH. LICENSE NO./  
NO. OF MACHINES

SIC

PREVIOUS ACCOUNT  
NUMBER IF ANY

153090

SIGNATURE OF  
FIELD REPR.

*George J. Baker*

FOR TAX COLLECTORS USE

CURRENT FEE	
\$	
PRORATION	
\$	
PENALTY	
\$	
PRIOR YEAR FEE	
\$	
PRIOR YEAR PEN	
\$	
PAY-TOTAL FEE DUE	
\$	

U.S. MAIL





# OFFICIAL NOTICE OF VIOLATION NO 042136

County of Los Angeles Department of Health Services  
Community Health Services Environmental Management

(OFFICE ADDRESS)

10643 S NORWALK - S.F.S 90670.  
DATE 3/16/84  
ADDRESS 9600  
ADDRESS  
you are hereby notified to remove  
oil from ground in rear storage  
area

IF CLEANUP ~~REA~~ DETAIL CLEAN-UP  
PLAN IF NECESSARY. DESC. WHAT  
IS TO BE DONE.

This notice shall be complied with as required by: ☐ State Health ☒ Safety Code ☒ California Administrative Code, ☒ Los Angeles  
County Ordinance No. 15870 ☐ Other Code

Process & Materials	→	P R O hazardous waste & risk potential	# UST		Size / For	Product / Service	<input type="checkbox"/> HRF <input type="checkbox"/> Materials	Address	City	State	Zip	Mapping	#	Owner	Name
								10643 S	LA	CA	90670				







City, Zip Code 90070

2615 South Grand Avenue, Room 607  
Los Angeles, CA 90007  
(213) 744- 3223

NOTICE OF VIOLATION AND ORDER TO COMPLY

James Colling

The following conditions or practices observed at your facility are violations of the California Code of Regulations (CCR), Title 26, Division 22 or the California Health and Safety Code, Division 20, Chapter 6.5, (H&S) or both, which relate to the disposal, management, transportation, and storage of hazardous waste. YOU ARE DIRECTED TO CORRECT THE VIOLATIONS WITHIN THE TIMES SPECIFIED BELOW.

CORRECTION

DATE

DISPOSAL:

5/19/89 ☒ 1. Discontinue the disposal of hazardous waste to an unauthorized point(s). (H&S 25189.5). any waste oil onto the ground.

☐ 2. Legally dispose of all hazardous waste and contaminated materials (H&S 25189.5)

☐ 3. Legally dispose of all stored hazardous waste and contaminated materials located at (H&S 25 ) discharged to

MANAGEMENT:

5/19/89 ☒ 4. Submit to this office a copy of your facility's hazardous materials contingency plan and employee training plan. (CCR 67105, 67120-67126, 67140-67145) viewed by G.B.

TRANSPORTATION:

☐ 5. Discontinue the transport of hazardous waste until the following have been met:  
☐ A. Obtain an EPA Identification Number from the State Department of Health Services at (916) 324-1781. (CCR 66472)

☐ B. Complete a uniform Hazardous Waste Manifest or obtain a receipt when applicable under State Department of Health Services variance procedures. (H&S 25160 and 25143)

☐ C. Transport all hazardous waste by a State registered hauler. (H&S 25163)

5/19/89 ☒ 6. Submit to this office a copy of the completed hazardous waste manifest(s) used to dispose of all completed manifests (CCR 66328).

Note ☐ 7. Keep copies at your facility of all completed manifests, receipts or both for a minimum of three (3) years and make documents available for agency review. (CCR 66492)

STORAGE:

5/19/89 ☐ 8. Discontinue the storage of hazardous waste for longer than 90 days without a permit from the State Department of Health Services. (CCR 66508)

6/19/89 ☒ 9. Store all hazardous waste in compatible containers which are closed and in good condition. (CCR 66241 - 67243) keep lids + bung on, don't over fill

6/19/89 ☒ 10. Properly label all containers with the following: the words, "HAZARDOUS WASTE" + PERC name and address of generator; hazardous properties; a composition and physical state of the waste; and the accumulation date. (CCR 66508) Label waste oil

OTHER:

☐ 11. Provide this office with a site assessment and mitigation plan for the contamination at your facility.

☒ 12.

Remove + legally dispose of oily surface in new asphalted area

Failure to fully comply with this Notice and Order may result in further legal action.

Owner or Authorized Representative

James Colling / G.B.  
Hazardous Materials Specialist



COMPANY NAME: Continental Heat Treating STREET: 10643 Norwalk Bl DATE: 2-19-89

OWNER: Stall, James, - owner CITY & ZIP: SFS 90670

L.A. CO. PERM. NO.: 153090-101 INDUSTRIAL WASTE NO.:  PERSON INTERVIEWED & TITLE: Bestman, H. K., G.M. PHONE NO.: (213) 944-1808

EPA NO.: CAD05358295 EMERGENCY NO.:

TYPE OF FACILITY & DESCRIPTION OF OPERATION/PRODUCTS: Metal Heat Treating

SAFETY SHOWER: OK  
EATING AREA: OK  
TOILET & WASHING FACILITIES ADEQUATE: OK  
PLANT SANITATION ADEQUATE: OK

PROCESS	MATERIAL	TYPE	VOL./LBS	HAZARDOUS WASTE		
				STORAGE METHOD	DISPOSAL METHOD	MANIFEST
① Degreasing quenching	PERC	<del>2,200 gal</del> waste PERC	2,200 gal Year	55 gal steel	Acto-Kleen (Picc Rivers)	400 gal (10 drum) 3/21/89 8774641708
	Mineral oil	min oil water mix		Clarifier pumped once per quarter yr	Disposal Control Service	84497012 11-29-88 1200 Gal.
② Floor sweeping & spills	Dry absorbent		11 regular		Disposal Control Service	13 drum 12-5-88 87595747
④ Retort & ⑤ Temporary	H <sub>2</sub>		approx 2500 gal w/o	used in process	to atmosphere as reacted & unreacted gas	Cos R H
Vacuum Furnace cooling & backfilling	N <sub>2</sub>		approx 5200 gal 2 tanks / mo			

NUMBER OF UNDERGROUND STORAGE TANKS:

VOLUME & TYPE OF WASTE IN UNDERGROUND TANK(S):

PRIVATE DISPOSAL SYSTEMS ON PREMISES: YES  NO

ACCESS TO STORM INLET ON PREMISES: YES ✓

CHLORINATED HYDROCARBON USED: YES ✓

SEWER CONNECTION ON PREMISES: YES ✓

REMARKS: Hauls approx 1/quarter all wastes

apparent motor oil dischargers with one auto-typ oil filter on ground 54

REFERRAL TO:

ACTION:

SURVEY CONDUCTED BY: James Odell



## HAZARDOUS WASTE CONTROL PROGRAM

DATE: 5-19-89 p2

NAME		STREET		CITY & ZIP		DISTRICT	
		PERSON INTERVIEWED & TITLE		PHONE NO.		NO. EMPLOYEES	
PHL NO.		INDUSTRIAL WASTE NO.		EPA NO.		EMERGENCY NO.	

FACILITY &amp; DESCRIPTION OF OPERATION/PRODUCTS:

 SAFETY SHOWER \_\_\_\_\_  
 EATING AREA \_\_\_\_\_  
 TOILET & WASHING FACILITIES ADEQUATE \_\_\_\_\_  
 PLANT SANITATION ADEQUATE \_\_\_\_\_

		HAZARDOUS WASTE					I.H. HAZARD	
MATERIAL	TYPE	VOL./LBS	STORAGE METHOD	DISPOSAL METHOD	MANIFEST	CONTROL		
Service pumps ic pump	oils grease }				Service Company			
	oil	waste oil			onto ground asphalt top at rear yard.			
cleaning sting steel	Steel shot glass heads }	dust		swept to domestic trash				

OF UNDERGROUND STORAGE TANKS:

C &amp; TYPE OF WASTE IN UNDERGROUND TANK(S):

DISPOSAL SYSTEMS ON PREMISES: YES \_\_\_ NO \_\_\_

ACCESS TO STORM INLET ON PREMISES: Yes \_\_\_ No \_\_\_

CHLORINATED HYDROCARBON USED: YES \_\_\_ NO \_\_\_

SEWER CONNECTION ON PREMISES: YES \_\_\_ NO \_\_\_

AS: A Q M D for drums &amp; vapor degreaser

IONS:

TO:

ACTION:

SURVEY CONDUCTED BY:



**1606 D 3**

COUNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICES  
HAZARDOUS WASTE CONTROL PROGRAM

NAME		STREET		DATE: 5-19-89 R3	
		CITY & ZIP		DISTRICT	
PHL NO.	INDUSTRIAL WASTE NO.	PERSON INTERVIEWED & TITLE		PHONE NO.	NO. EMPLOYEES
		EPA NO.	EMERGENCY NO.		

FACILITY & DESCRIPTION OF OPERATION/PRODUCTS:

SAFETY SHOWER \_\_\_\_\_  
EATING AREA \_\_\_\_\_  
TOILET & WASHING FACILITIES ADEQUATE \_\_\_\_\_  
PLANT SANITATION ADEQUATE \_\_\_\_\_

HAZARDOUS WASTE

STORAGE METHOD

DISPOSAL METHOD

MANIFEST

CONTROL

I.H.  
HAZARD

MATERIAL	TYPE	VOL / WT	STORAGE METHOD	DISPOSAL METHOD	MANIFEST	CONTROL	I.H. HAZARD
fitting Anhyd NH <sub>3</sub>		60 lbs <del>40 lbs</del> toxic		consumed in process			
ripping rags	oil solvent			covered cans → Prudden hal overall service			

UNDERGROUND STORAGE TANKS:

TYPE OF WASTE IN UNDERGROUND TANK(S):

DISPOSAL SYSTEMS ON PREMISES: YES ☐ NO ☐

ACCESS TO STORM INLET ON PREMISES: Yes ☐ No ☐  
CHLORINATED HYDROCARBON USED: YES ☐ NO ☐  
SEWER CONNECTION ON PREMISES: YES ☐ NO ☐

(172)



Ray Bering - Pres  
 90-101  
 TREATING OF STEEL (including Stainless)

INDUSTRIAL WASTE NO EPA NO. CADOS 3858296  
 SAFETY SHOWER YES  
 CATING AREA YES  
 TOILET & WASHING FACILITIES ADEQUATE YES  
 PERSONNEL PROTECTIVE DEVICES ADEQUATE YES  
 PLANT SANITATION ADEQUATE YES

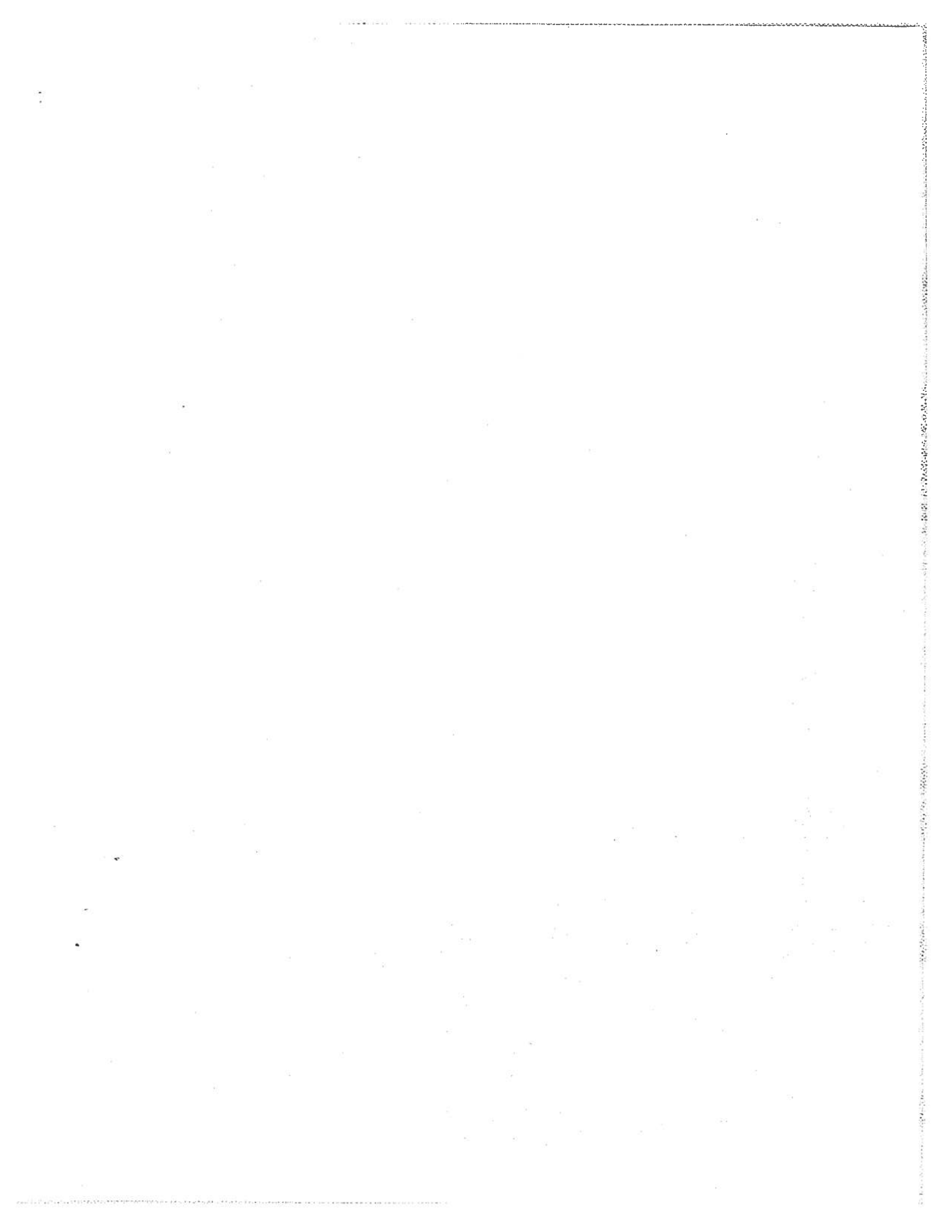
MATERIAL	CONTROL	HAZARD	TYPE	VOLUME	STORAGE METHOD	HAZARDOUS WASTE	DISPOSAL METHOD
Treatment annealing	type of oil?	oil	oil	110 gal	Dump	Removal by Jerr Hayler - Lakewood	577 Service to PPK Manifest reg. Permitted by Supplier
cleaning of bearing	Perchloroethylene	Perchloroethylene	1-1 T.C.E. Acetone	4 gal	Drum	ACTO HIGER 7869 Permitted by Pico Rivera	Removal to BKK by Nash Salvage
cleaning	1-1 Trichloroethylene	Perchloroethylene	Perchloroethylene	150 gal	Drum	60211 Placed in Whottay	Permitted by BKK
cleaning	acetone	acetone	acetone	4 gal	Drum		
cleaning	Perchloroethylene	Perchloroethylene	Perchloroethylene	4 gal	Drum		
cleaning	Perchloroethylene	Perchloroethylene	Perchloroethylene	4 gal	Drum		
cleaning	Perchloroethylene	Perchloroethylene	Perchloroethylene	4 gal	Drum		
cleaning	Perchloroethylene	Perchloroethylene	Perchloroethylene	4 gal	Drum		
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cleaning	Perchloroethylene	Perchloroethylene	Perchloroethylene	4 gal	Drum		
cleaning	Perchloroethylene	Perchloroethylene	Perchloroethylene	4 gal	Drum		
cleaning	Perchloroethylene	Perchloroethylene	Perchloro				

ACCESS TO STORM DRAIN INLET ON PREMISES: YES NO  
 CHLORINATED HYDROCARBON USED: YES NO  
 SEWER CONNECTION ON PREMISES: YES NO

UNDERGROUND STORAGE TANKS: YES NO  
 TYPE OF WASTE IN UNDERGROUND TANK: YES NO  
 DISPOSAL SYSTEMS ON PREMISES: YES NO

AQUED permits in force (gasoline tank, above blasting)  
 oil on small area - Now to be sent







DBA CONTINENTAL HEAT  
Owner JAMES TRATING INC  
Partner GR. STILL

Address 10643 S NORWALK BL  
unit # 5 City SFS Zip 90267

Mailing SA

Interviewed Ray Cross  
Title MECHANIC  
Product/Service HEATING TR

Start Date '69 # of employees 33  
# of shifts 3 Operating hours 5

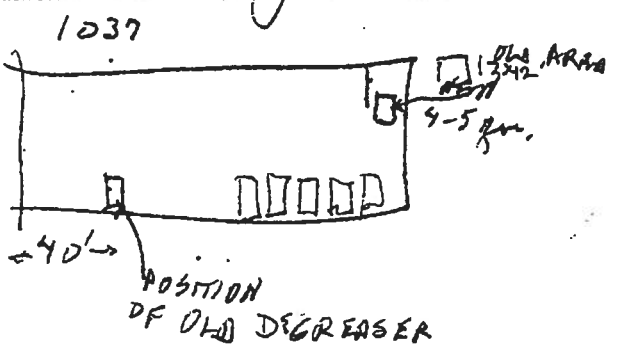
Viol Rank 3 CA Waste Code 1 221 2 223 3 213 4 211  
☐ HWUT Amt (PGT) Pounds, Gallons, Tons; per quarter 600 G

☐ HRF Mtl/Qty  
Referrals ☐ AQMD ☐ B&S ☐ Fire ☐ IW ☐ OSHA ☐ SDHS

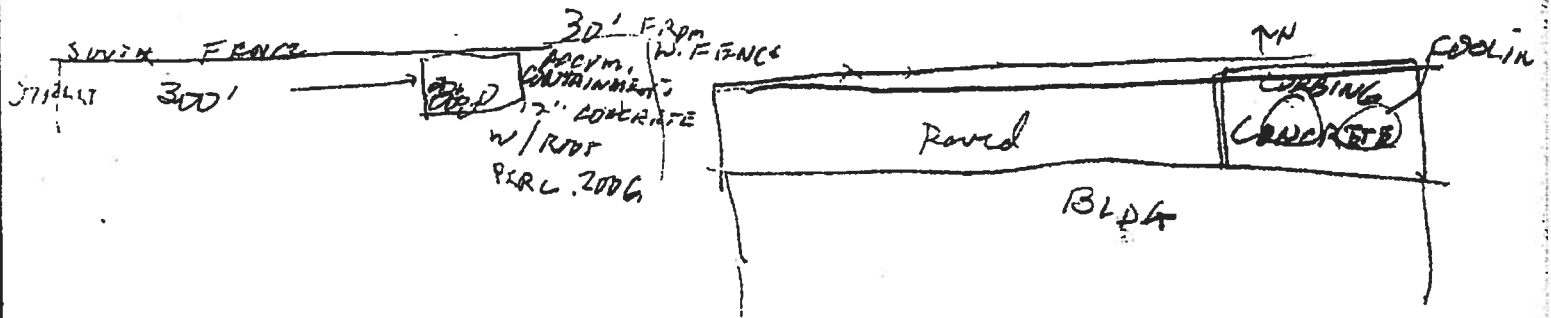
Viol 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33  
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 99

Visit Date	Start Time	Insp	Action	Time Invested	Special Circumstances
10/6/94	10:15	08	1 C -N	2:30	complaint 33-143-118
01/96	01:15		C	2:1	with Lance Ralston
1/1					LANCE RALSTON

Signature(s) [Signature]  
Action codes: A-Abate C-Complaint E-Enforce H-Hearing I-Insp M-site Mit N-NOV O-no viol P-PHL Inv R-Revisit S-Samples T-Time ext X-other Z-non-gen



FIN DEL GRAMS  
24 hr. 33-0206111  
310 697-0903  
DANNIS HUGIE  
→ ROCKEM.





Business CONTINENTAL HEAT TREATING INC.  
Address 10643 S. NORWALK BL.  
City, ZIP Code SANTA FE SPRINGS 90670

Inspector C. BAKER  
HEALTH/HAZARDOUS MATERIALS DIVISION  
7300 Alondra Bl./Ste 203  
Paramount CA 90723  
Office (310) 790-1810  
Fax (310) 790-8002

Violations: The conditions or practices checked below represent a violation of the referenced section of Title 22, California Code of Regulations (22 CCR, Div 4.5, Ch 10, Sec 66260.1 et seq), and/or Health & Safety Code Chapter 6.5 (H&S, Div 20, Ch 6.5, Sec 25100 et seq) for which there are civil and criminal penalties. Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. You are directed to correct the violations within the times specified. Failure to do so will be considered an additional violation.

**HAZARDOUS WASTE DETERMINATION**

Correction Date 1/1

01 ☐ Provide a hazardous waste determination for (CCR 66262.11)

**DISPOSAL**

Correction Date 1/1

Discontinue the illegal disposal of hazardous waste and/or extremely hazardous waste to an unauthorized location (H&S 25189.5):

- 02 ☐ trash/dumpster/ground;
- 03 ☐ storm drain;
- 04 ☐ sewer/septic system with a permit;
- 05 ☐ unpermitted facility.
- 06 ☐ Discontinue the disposal of hazardous materials containers which are not legally empty (CCR 66261.7)

**EPA NUMBER/PERMITS**

Correction Date 1/1

Obtain the following from the Cal-EPA:

- 07 ☐ EPA Identification Number (contact Cal-EPA, 916-324-1781, for ID number) (CCR 66262.12);
- 08 ☐ on-site waste treatment/disposal permit for (CCR 66270.1)

09 ☐ extremely hazardous waste permit for handling and disposal of (CCR 67430.1)

**STORAGE AND MANAGEMENT OF CONTAINERS**

Correction Date 1/1

Discontinue the on-site accumulation of hazardous waste:

- 10 ☐ longer than 90 days without an extension from DTSC (CCR 66262.34(c));
- 11 ☐ longer than 90 days after 100 kg has been accumulated (CCR 66262.34(d));
- 12 ☐ longer than 1 year or 90 days after 65 gallons has been accumulated at satellite storage.

Label the waste container with the following:

- 22 ☐ the words, "HAZARDOUS WASTE" (CCR 66262.34(f));
- 14 ☐ description of contents / hazardous property of waste / generator name and address (CCR 66262.34(g));
- 13 ☐ accumulation start date (CCR 66262.34(h)).

Provide hazardous waste containers which are:

- 15 ☐ in good condition (CCR 66265.171);
- 16 ☐ compatible with waste contents (CCR 66265.172);
- 17 ☐ closed/sealed during storage (CCR 66265.173);
- 18 ☐ handled/stored/segregated to minimize waste release/reaction (CCR 66265.177(c));
- 19 ☐ inspected at least weekly (CCR 66265.174).
- 25 ☐ Label hazardous materials properly within 10 days or handle as hazardous waste (CCR 66261.2(f)(1)).
- 26 ☐ Store hazardous materials properly within 96 hours or handle as hazardous waste (CCR 66261.2(f)(2)).
- 20 ☐ Properly manage used oil filters (CCR 66266.130).
- 21 ☐ Properly manage spent lead-acid storage batteries (CCR 66266.81).

**TANK REGULATIONS**

Correction Date 1/1

- 23 ☐ Discontinue storing incompatibles in the same tank (CCR 66265.199).
- 24 ☐ Inspect tank and tank equipment daily and document in the operating record of the facility (CCR 66265.195).

Authorized rep <u>RAY CROSS</u>	Title <u>MECHANIC</u>	Page 1 of <u>2</u>
Auth rep signature <u>[Signature]</u>	Inspected by <u>[Signature]</u>	LACoFD HHMO • NV1-PAR • v2.5 • 8/93

P 14042

WHITE - OWNER CANARY - DISTRICT PINK - PROCESSING UNIT



- 29 ☐ Provide a written assessment for tank system (CCR 66262.192).

### RECORDKEEPING

Correction Date 1 / 1

- 30 ☐ Keep waste analysis/test records for at least three years (CCR 66262.40(e)).  
31 ☐ Send Biennial Report to DTSC (CCR 66262.41).  
32 ☐ Retain copies of biennial and exception reports for at least three years (CCR 66262.40(b)).

### TRAINING

Correction Date 1 / 1

- 33 ☐ Provide a training program (CCR 66265.16).  
34 ☐ Train and supervise personnel within six months of hire date and retrain as needed (CCR 66265.16(b)).  
36 ☐ Keep training records on site (CCR 66265.16(d)).  
37 ☐ Maintain training records until closure of facility or for at least three years (for former employees) (CCR 66265.16(e)).

### CONTINGENCY PLAN/BUSINESS PLAN

Correction Date 10/16/94

- 38 ☐ Submit a contingency/business plan (CCR 66265.53(b)).  
39 ☐ Complete contingency/business plan (CCR 66265.52).  
40 ☐ Maintain copy of plan on site (CCR 66265.53).  
41 ☒ Amend and update plan as necessary (CCR 66265.54).  
42 ☐ Assign Emergency Coordinator to facility (CCR 66265.55).

SUBMIT UPDATE TO THIS OFFICE  
BY 11/6/94 (NOV 6, 1994)  
PREPAREDNESS AND PREVENTION

Correction Date 1 / 1

- 43 ☐ Maintain facility to minimize possibility of fire or release of hazardous waste or constituents (CCR 66265.31).  
44 ☐ Provide an internal communications or alarm system (CCR 66265.32(a)).  
45 ☐ Provide a device capable of calling outside emergency help (CCR 66265.32).  
46 ☐ Provide access to communication/alarm system during waste handling (CCR 66265.34).  
47 ☐ Provide fire/spill control or decontamination system (CCR 66265.32(e)).  
48 ☐ Test and maintain emergency equipment (CCR 66265.33).  
49 ☐ Maintain required aisle space (CCR 66265.35).

### MANIFESTS/RECEIPTS

Correction Date 1 / 1

- 50 ☐ Discontinue shipping hazardous waste without a manifest (CCR 66262.42).  
51 ☐ Maintain manifest copy for three years from shipment (CCR 66262.40).  
52 ☐ Maintain completed modified manifest/receipt(s) on site for at least three years (CCR 66263.42).  
53 ☐ Maintain used oil manifest/receipt(s) on site for at least three years (H&S 25250.8).  
54 ☐ Provide manifest copies to DTSC within 30 days (CCR 66262.23).  
55 ☐ Complete all applicable sections of the manifest (CCR 66262.23).  
56 ☐ Determine status of waste when TSD facility manifest copy is not received within 30 days (CCR 66262.42).  
57 ☐ Send Exception Report to DTSC within 45 days (CCR 66262.42).  
58 ☐ Provide proper documentation for excluded recyclable materials (H&S 25143.10).

### TRANSPORT

Correction Date 1 / 1

- 59 ☐ Discontinue shipping hazardous waste by transporters lacking an EPA ID No. (CCR 66262.12).  
60 ☐ Discontinue shipping hazardous waste to TSD facilities lacking an EPA ID No. (CCR 66262.12).

### OTHER

Correction Date 10/06/94

- 61 ☐ Provide Hazardous Waste Management Performance Plan and Report for review (H&S 25244.21).  
62 ☐ Provide a copy of LDR notice/certification for each shipment of restricted hazardous waste (CCR 66268.7).  
63 ☒ Provide a corrective action plan for unauthorized releases of hazardous waste or constituents (H&S 25187).  
64 ☐ Legally remove hazardous waste/contamination before the closure of the facility (CCR 66265.11).

#63 EVALUATE THE AREA VICINITY  
120' W. OF THE EAST WALL AND  
30' S. OF THE NORTH WALL  
FOR SOIL CONTAMINATION BY  
CHLORINATED HYDROCARBON  
SOLVENT

PROVIDE PLAN TO THIS OFFICE  
NO LATER THAN NOV 20, 1994.

Authorized rep <u>RAY CROSS</u>	Title <u>MECHANIC</u>	Page 2 of <u>2</u>
Auth rep signature <u>Ray Cross</u>	Inspected by <u>Donna J. Buler</u>	LACoFD HHMD • NV1 • v2.6 • 6/93



DEA **CONTINENTAL FIRE** **E. BAKER**

Owner **JAMES TRATING INC.**  
Partner **G. STELL**

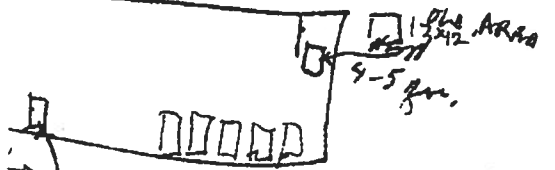
Address number dir street name type  
**106435 NORWALK BL**  
City **SFS** Zip **90670**  
S.A.

Interviewed **Ray Cross**  
Title **MECHANIC**  
Product/Service **HEATING TR.**  
Start Date **'69** # of employees **33**  
# of shifts **3** Operating hours **5**  
CA Waste Code **1 221**  
Amt (PGT) Pounds, Gallons, Tons: per quarter  
**2 223** **3 213** **4 211**  
Mtl/Qty **600 G**

ol Rank **3**  
HWUT  
HRF  
errals ☐ AQMD ☐ B&S ☐ Fire ☐ IW ☐ OSHA ☐ SDHS ☐

Visit Date	Start Time	Insp	Action	Time Invested	Special Circumstances
10/6/94	10:15	08/1	C-N	2:30	Complaint by 333143-118
1/96	10:15				With Lance Ralston
1/1					LAUREN RALSTON

ure(s) **Project Baker**  
es: A-Abate C-Complaint E-Enforce H-Hearing I-Insp M-site Mit N-NOV O-no viol P-PHL Inv R-Revisit S-Samples T-Time ext X-other Z-non-gen  
**037**

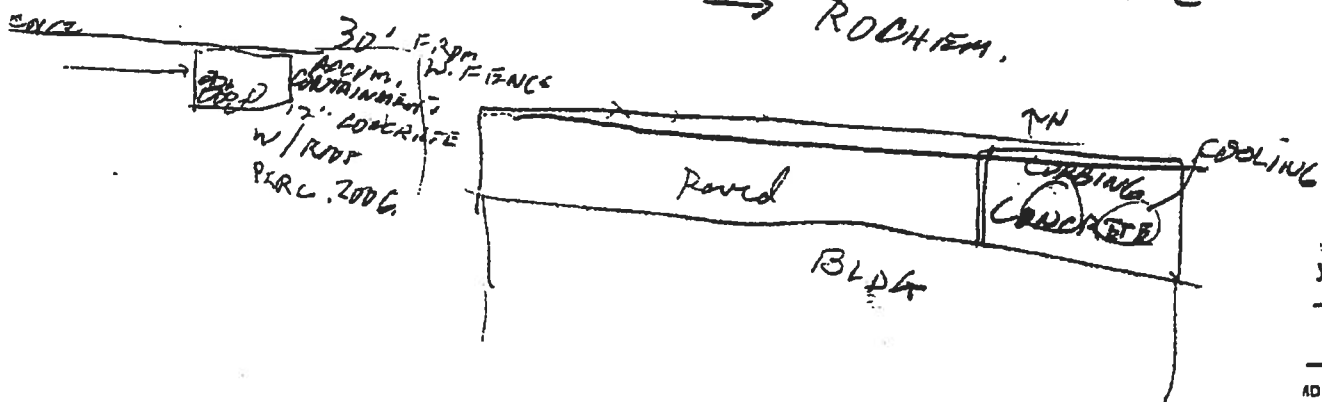


POSITION  
OF OLD DEGREASER

FIN D22 GRAMS  
24 hr. 33-0206111

310 697-0903  
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→ ROCHAM.



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y (CCR 66265.195).



waste tank systems (CCR 66265.193).

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Correction Date 1 / 1

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Authorized rep RAY CROSS

Title MECHANIC

Page 2 of 2

Auth rep signature Ray Cross

Inspected by George T. Bala

LACoFD HHMD • NV1 • v2.5 • 8/83







**It is the responsibility of the business owner to ensure that the release of hazardous materials is controlled and that the community is protected from any potential release of hazardous materials.**

### Section 1 General Business Information

Name of Business CONTINENTAL HEAT TREATING CO. INC.

Address 10643 S. NORWALK B.VD City SANTA FE SPRINGS Zip 90670

Phone Number(310) 944 8808 Emergency Phone(310) 697 0903

Description of Business HEAT TREATING METAL PARTS

Number of Employees 30 Operating Hours(M-F) 24HRS M-F Sat  Sun

Business Owner JAMES G. STULL Home Phone Number(714) 675 0408

Address 319 GRAND CANAL City BALBOA ISLAND Zip 92662

Property Owner ANNA HATHAWAY TRUST Phone Number(714) 661 6969 C.P.A.

### Section 2 Hazardous Material / Waste Activities - List all Chemicals at your business.

RAW MATERIALS				HAZARDOUS WASTE	
Chemical Name or Trade Name*	Specific Usage	Quantity of Chemicals Stored	Manner of Storage	Quantity of Waste Stored	Manner of Storage
OIL	QUENCH OIL	500 GAL	TANK	300 GAL	DRUMS
PERCHLORETHLENE	DEGREASING	200 GAL	TANK	300 GAL	DRUMS
ACETONE	CLEANING	55	DRUM	0	0
AMMONIA	CARBONITRIDE	250	TANK	0	0

\*Obtain from your Supplier the Material Safety Data Sheets for trade name chemical and attach to this form.

### Section 3 Emergency Coordinator

Your company is required to list the names, addresses, and telephone numbers for your emergency coordinators(EC). The EC shall have the authority to commit resources and shall have the responsibility for coordinating the company's activities to mitigate an unplanned release of hazardous materials.

Name of EC DENNIS HUGO AfterHours Phone(310) 697 0903

Address 141 NORTH VIRGINIA ST. City LA HABRA Zip 90631

Alternate EC RAY CROSS AfterHours Phone(909) 674 1529

Address 29264 NORTHPOINTE City LAKE ELSINORE Zip 92530



The EC must notify the following agencies in the event of a release, fire, or explosion which could threaten human health or the environment.

Fire 911 Health Haz Mat (213) 890-4317 Police 911

If the EC determines that evacuation of local areas may be advisable, the EC Shall notify the above agencies and the State Office of emergency Services at 1-800-852-7550.

List an Emergency Response Contractor you may use in the event of a major Hazardous Materials Spill.

Name PACIFIC ENVIRONMENTAL MGMT. Emergency Phone( 800 ) 777 - 3363

List all hospitals or clinics you may use in the event of hazardous materials exposures or injuries.

Hospital or Clinic HEALTH FIRST MEDICAL Phone(310) 949 - 9328

Address 11817 E. TELEGRAPH RD City SANTA FE SPRINGS

The EC shall report to the Health Haz Mat Division within 15 days all details of any incident where this contingency plan was activated.

#### Section 5 Emergency Procedures.

Attach a description of what your employees will do to prevent or stop a hazardous materials spill at your facility. (Training is required for procedures involving the handling of hazardous wastes.)

#### Section 6 Site Map

Attach a map of your company and indicate the locations of the following:

- |                           |                            |                         |
|---------------------------|----------------------------|-------------------------|
| *Layout work areas        | *Gas & electrical shut-off | *Material Safety Sheets |
| *Fire Extinguishers       | *Emergency Exits           | *Underground Tanks      |
| *Chemical Storage         | *Waste Storage             | *Above Ground Tanks     |
| *Alarms - Telephone       | *Offices & Restrooms       | *Evacuation Routes      |
| *Employee Protect'n Equip | *All Drains & Clarifiers   | *Emergency Equipment    |
| *First Aid Stations       | *Emergency Shut-offs       | *Leak detection devices |

\*Indicate schools, residences, and public gathering places less than a block away from your facility.

#### Section 7 Additional Requirements

This Contingency Plan must be updated on a continuous basis and copied to our office. This Contingency Plan is designed for your use in the event of a hazardous materials incident. You must keep copies of your completed plan at your facility at all times. Review the contents of the plan with your employees and make the location of your completed plan known and accessible to them.

Send your completed Contingency plan to the following address:

County of Los Angeles Fire Department-Prevention Bureau/HEALTH HAZ MAT DIVISION  
7300 E Alondra Blvd. #203, Paramount, Calif. 90723  
Phone: (310) 790-1810, Fax: (310) 790-8002

Your Inspector is: GEORGE BAKER



**BUSINESS NAME** CONTINENTAL HEAT TREATING CO. INC.

**ADDRESS** 10643 S. NORWALK BLVD. **CITY** SANTA FE SPRINGS **ZIP** 90670

**Section 5: Emergency Procedures**

In the event of a OIL spill, the

following procedures will be followed.

☒ XX

Using DRY SORB  
the spilled material will be contained and prevented from going onto  
the ground or off the property.

☒ XX

The absorbed OIL & DRY SORB  
will be placed in a leak-proof container with tight fitting lid,  
labelled "Hazardous Waste" and held as hazardous waste until  
lawfully disposed.

☒ XX

Based on the:

☒ XX

Material Safety Data Sheet

☐

Personal knowledge

☐

Other \_\_\_\_\_

of the Material, the following precautions should be  
taken when handling the spilled material:

Wear:

☐

Gloves and goggles

☐

Respirator

☒ XX

Boots and Apron

☐

Other \_\_\_\_\_

See Reverse side, page 4 for Site Map



**BUSINESS NAME** CONTINENTAL HEAT TREATING CO. INC.  
**ADDRESS** 10643 S. NORWALK BLVD. **CITY** SANTA FE SPRINGS **ZIP** 90670

**Section 5: Emergency Procedures**

In the event of a PERCHLORETHYLENE spill, the following procedures will be followed.

☒ Using DRY SORB  
the spilled material will be contained and prevented from going onto the ground or off the property.

☒ The absorbed DRY SORB  
will be placed in a leak-proof container with tight fitting lid, labelled "Hazardous Waste" and held as hazardous waste until lawfully disposed.

☒ Based on the:

- ☒ Material Safety Data Sheet
- ☐ Personal knowledge
- ☐ Other \_\_\_\_\_

of the Material, the following precautions should be taken when handling the spilled material:

Wear:

☒ Gloves and goggles

☒ Respirator

☒ Boots and Apron

☐ Other \_\_\_\_\_

See Reverse side, page 4 for Site Map



**BUSINESS NAME** CONTINENTAL WAX TREATING CO. INC.

**ADDRESS** 10643 S. NORWALK BLVD. **CITY** SANTA FE SPRINGS **ZIP** 90670

**Section 5: Emergency Procedures**

In the event of a ACETONE spill, the following procedures will be followed.

☒

Using DRY SORB  
the spilled material will be contained and prevented from going onto the ground or off the property.

☒

The absorbed ACETONE AND DRY SORB  
will be placed in a leak-proof container with tight fitting lid, labelled "Hazardous Waste" and held as hazardous waste until lawfully disposed.

☒

Based on the:

☒

Material Safety Data Sheet

☐

Personal knowledge

☐

Other \_\_\_\_\_

of the Material, the following precautions should be taken when handling the spilled material:

Wear:

☒

Gloves and goggles

☒

Respirator

☒

Boots and Apron

☐

Other \_\_\_\_\_

See Reverse side, page 4 for Site Map



**BUSINESS NAME**

**CONTINENTAL HEAT TREATING CO., INC.**

**ADDRESS** 10643 S. NORWALK BLVD. **CITY** SANTA FE SPRINGS **ZIP** 90670

**Section 5: Emergency Procedures**

In the event of a AMMONIA (NH3) spill, the following procedures will be followed.

☒ XX

Using DRY SORB  
the spilled material will be contained and prevented from going onto the ground or off the property.

☒ XX

The absorbed DRY SORB  
will be placed in a leak-proof container with tight fitting lid, labelled "Hazardous Waste" and held as hazardous waste until lawfully disposed.

☒ XX

Based on the:

☒ X

Material Safety Data Sheet

☐

Personal knowledge

☐

Other \_\_\_\_\_

of the Material, the following precautions should be taken when handling the spilled material:

Wear:

☐

Gloves and goggles

☒ X

Respirator (APPROVED)

☐

Boots and Apron

☒ X

Other FULL PROTECTIVE CLOTHING

See Reverse side, page 4 for Site Map



LOM  
ORG  
WST

PARKING

CRY  
EXP

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I

10643 SO NORWALK BLVD.







CAS NUMBER 7664-41-7

PRODUCT NAME ANHYDROUS AMMONIA

HSCC MSDS NO. CA1000



## HILL BROTHERS CHEMICAL CO.

1675 No. Main Street  
Orange, California 92667Telephone No: 714-998-8800  
Outside Calif: 800-821-7234  
CHEMTREC: 800-424-9300

Revision issued: 6/3/92

Supersedes: 5/21/92

First issued: 12/1/85

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, HILL BROTHERS CHEMICAL COMPANY makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.

## SECTION I - PRODUCT IDENTIFICATION

SYNONYMS/COMMON NAMES: ANHYDROUS AMMONIA; AMMONIA;  $\text{NH}_3$   
CHEMICAL FAMILY / TYPE: HYDRIDE, (ALKALINE GAS), INORGANIC BASE  
DOT PROPER SHIPPING NAME: AMMONIA ANHYDROUS LIQUEFIED  
DOT HAZARD CLASS / UN/NA. #, PKG GRP: 2.2, UN1005,  
REPORTABLE QUANTITY: 100 POUNDS (45.4 KILOGRAMS) (16.80 GALS)  
ADDITIONAL DESCRIPTION REQUIREMENT: INHALATION HAZARD.  
NFPA RATING: HEALTH - 3; FIRE - 1; REACTIVITY - 0  
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

## SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure ACGIH TLV	Limits (TWAs) OSHA PEL	In Air STEL*
AMMONIA	7664-41-7	100	25 ppm/ 18 mg/m <sup>3</sup>	25 ppm/ 18 mg/m <sup>3</sup>	35 ppm

\*ACGIH short term exposure limit (STEL)

## SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: COMPRESSED GAS

Appearance/Color/Odor: COLORLESS GAS OR LIQUID WITH EXTREMELY PUNGENT ODOR

pH: 13+

Melting Point: -77.7° C; -107.9° F



**Vapor Pressure (mmHg): 227 @ 0° C; 32° F Molecular Weight: 17.03**

**Specific Gravity (Water = 1): 0.68 @ -33.4°C; -28°F**

**Density (Air = 1): 0.6 (GAS), >1 (AEROSOL) % Volatile (by volume): 100%**

#### **SECTION IV - FIRE AND EXPLOSION**

**Flash Point: N/A**

**Autoignition Temperature: 651°C; 1204°F**

**Lower Flammable Limit: ~ 16% by Volume Upper Flammable Limit: 25% by Volume**

**Unusual Fire and Explosion Hazards:** If involved in fire, 16% to 25% Ammonia mixture with air may explode. Keep container cool to prevent bursting or release of gas. The presence of oil or other combustible materials will increase the fire hazard.

**Extinguishing Media:** Water Spray or Water Fog, Carbon Dioxide, Polar or Alcohol Foam, Dry Chemical.

**Special Firefighting Procedures:** Stop flow of gas. Use water fog to keep fire-exposed containers cool and to protect the men effecting the shut-off. Wear self-contained breathing apparatus (SCBA) and encapsulating chemical protective clothing. Approach fire upwind and evacuate area downwind.

#### **SECTION V - REACTIVITY**

**Stability: Stable**

**Hazardous Polymerization: Will not occur**

**Conditions to Avoid:** Heat, open flames.

**Materials to Avoid:** Contact with oxidizing gases, chlorine, bromine, mineral hypochlorite iodine, halogens, calcium, and strong acids. Contact with copper, silver, zinc, and alloys of same. Mercury, silver oxide or can form explosive compounds.

**Hazardous Decomposition Products:** Combustion will generate oxides of nitrogen.

#### **SECTION VI - HEALTH HAZARDS**

**INGESTION:** This material is a gas under normal atmospheric conditions and ingestion is unlikely. Ingestion of liquid ammonia may result in severe irritation or ulceration of the mouth, throat and digestive tract which may be displayed by nausea, vomiting, diarrhea and, in severe cases, collapse, shock and death.

**INHALATION:** Irritation to the mucous membranes of the nose, throat and lungs is noticeable at 100 ppm. Concentrations above 400 ppm will cause throat irritation and may destroy mucous surfaces upon prolonged contact. High concentrations can cause pulmonary edema. Breathing air containing concentrations greater than 5,000 ppm may cause sudden death from spasm or inflammation of the larynx.

**SKIN:** Liquid Ammonia produces severe skin burns on contact. Ammonia gas may cause skin irritation, especially if skin is moist. The liquid can cause skin damage resulting from combined freezing and corrosive action on the skin. Atmospheric concentrations above 30,000 ppm will burn and blister skin after a few seconds of exposure.

**N/A - Not Applicable**



**Carcinogenicity List:** NO

**MSD:** NO

**IARC Monograph:** NO

**OSHA Regulated:** YES

**Signs and Symptoms of Exposure:** Burning of the eyes, conjunctivitis, skin irritation, swelling of the eyelids and lips, dry red mouth and tongue, burning in the throat, and coughing. In more severe cases of exposure, difficulty in breathing, signs and symptoms of lung congestion, and, ultimately, death from respiratory failure due to pulmonary edema may occur.

**Effects of Overexposure:** Irritation and burns of the skin and mucous membranes. Headache, salivation, nausea, and vomiting. Difficult or labored breathing and cough with bloody mucous discharge. Bronchitis, laryngitis, hemoptysis, and pulmonary edema or pneumonitis. Death may result. Ulceration of the conjunctiva and cornea, and corneal and lenticular opacities. Damage to the eyes may be permanent.

**Emergency and First Aid Procedures:**

**INGESTION:** If this gas is swallowed in liquid form, keep victim warm and OBTAIN MEDICAL ATTENTION. If signs of respiratory obstruction develop; immediately transport to medical facility. Do not induce vomiting. Never give fluids or induce vomiting if patient is unconscious or having convulsions.

**INHALATION:** Remove victim to fresh air. Give oxygen if breathing is difficult. If breathing has stopped, start artificial respiration. OBTAIN MEDICAL ATTENTION.

**SKIN:** Apply water immediately to exposed areas of skin and continue for at least 30 minutes. Remove contaminated clothing while continuing to apply water, being careful not to tear the skin. Do not apply salves or ointments to affected areas. OBTAIN MEDICAL ATTENTION.

**EYES:** Remove victim to fresh air. Immediately flush with flowing water for at least 30 minutes with the eyelids held apart. OBTAIN MEDICAL ATTENTION.

**Medical Conditions Generally Aggravated by Exposure:** Ammonia is a respiratory irritant. Persons with impaired pulmonary function may be at increased risk from exposure.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps To Be Taken In Case Material Is Released Or Spilled:**

[Spills may need to be reported to the National Response Center (800/424-8802) DOT Reportable Quantity (RQ) is 100 pounds] Do not apply water onto leaking tank. Stop the flow of gas or liquid. Wear full protective clothing and self-contained breathing apparatus. Use water to protect men effecting the shut-off. Approach from upwind. Dike liquid spills to contain liquid. Evacuate the area immediately. Eliminate all open flames in vicinity of indoor spills or released vapor. Water fog can be used to cleanse atmosphere of ammonia vapor. Downwind areas can be protected by water fog nozzles positioned downwind.

**Handling and Storing Precautions:** Protect against physical damage. Outside shaded area or detached storage is preferred. Inside storage should be in a cool, dry, well ventilated, noncombustible location, away from all possible sources of ignition. Separate from other chemicals, particularly oxidizing gases, chlorine, bromine, iodine, and acids. Avoid ingestion, inhalation, and contact with skin or eyes.



**Other Precautions:** Highly toxic to fish and aquatic life. Do not contaminate any body of water by direct application, cleaning of equipment, or disposal. Since ammonia is a fertilizer, it may promote eutrophication (high in nutrients, low in oxygen) in waterways.

**Respiratory Protection:** Unless ventilation is adequate to keep airborne concentrations below the exposure standard, wear approved respiratory protection such as an ammonia canister mask or an approved air supplied respirator. Canister or cartridge type masks must not be used above their exposure limits. Use self-contained breathing apparatus (SCBA) in an area where the exposure level is above the limit of canister or cartridge type masks. In an emergency use only self-contained breathing apparatus (SCBA) to enter areas of ammonia exposure.

**Protective Clothing:** Rubber or synthetic chemical gloves and boots; cotton clothing and underwear. Rubber or synthetic chemical coats or aprons should be available, an encapsulating chemical protective clothing garment is desirable for heavy exposures.

**Other Protective Clothing or Equipment:** Eyewash fountain and safety shower should be available in work area. The use of long sleeved clothing closed at the neck is advised. Change if clothing becomes contaminated.

**\*The Immediately Dangerous to Life and Health Value**

CAS #	CHEMICAL NAME	% BY WEIGHT
7664-41-7	AMMONIA	100

Page 4 of 4



# HAZARD SAFETY DATA SHEET

RNO-CHEM CORP.  
425 ISIS AVE.  
INGLEWOOD, CA 90301  
(213)776-6233

PERCHLOROETHYLENE  
EFFECTIVE 12/28/89  
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## PERCHLOROETHYLENE

### SECTION 1

### IDENTIFICATION

PRODUCT: PERCHLOROETHYLENE  
CHEMICAL FAMILY: CHLORINATED HYDROCARBON SOLVENT  
SYNONYM: TETRACHLOROETHYLENE  
STOCK NUMBERS:

TECHNICAL GRADE:	2006	RECONSTITUTED GRADE:	2406
ELECTRONIC/SEMI GRADE:	2356	A.C.S. REAGENT GRADE:	3356

### DEPARTMENT OF TRANSPORTATION (DOT) IDENTIFICATION

REPORTABLE QUANTITY (RQ) ONE HUNDRED (100) POUNDS OR 45.4 KILOGRAM PER 49  
CFR 172.101 LIST OF HAZARDOUS  
SUBSTANCES  
DOT PROPER SHIPPING NAME: PERCHLOROETHYLENE  
DOT HAZARD CLASS: ORM-A  
DOT IDENTIFICATION NUMBER: UN-1897

### HAZARDOUS WASTE IDENTIFICATION

U.S. EPA WASTE NUMBER: F001

CALIFORNIA: 211

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT:  
THIS CHEMICAL IS NOT PHOTOCHEMICALLY REACTIVE  
VOLATILE ORGANIC COMPOUND (VOC) = 1610 grams/Liter

### SECTION 2

### PRODUCT/COMPOSITION DATA

COMPONENT #	COMPONENT	CAS NUMBER	PERCENT
1	PERCHLOROETHYLENE	127-18-4	100

\*SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT OF 1986  
("PROPOSITION 65") WARNING:

DETECTABLE AMOUNTS OF CARBON TETRACHLORIDE ARE PRESENT IN  
COMPONENT #1. THE CONCENTRATION LEVEL IS APPROXIMATELY 2.0 PARTS  
PER MILLION. THE DETECTION LIMIT FOR THIS CHEMICAL IS VARIABLE,  
AND DEPENDS UPON THE DETECTION INSTRUMENT'S SPECIFICITY,  
SENSITIVITY, THE ANALYTICAL METHOD UTILIZED, AND VARIOUS OTHER  
PARAMETERS.



BOILING POINT  
OR RANGE  
(DEG. F)

250

SPECIFIC  
GRAVITY  
(25/25C)

1.62

SOLUBILITY IN  
WATER @25C  
(WT %)

0.015

VAPOR  
PRESSURE  
(mm Hg)

18 @ 25C

VAPOR DENSITY  
IN AIR (AIR=1)

5.83

% VOLATILE  
BY VOLUME

100

EVAPORATION RATE  
ETHER = 1

0.12

APPEARANCE: CLEAR COLORLESS LIQUID ODOR:

SWEET ETHER LIKE

SECTION 4A

HEALTH INFORMATION-HEALTH RATING

HAZARDOUS MATERIALS IDENTIFICATION SYSTEMS (HMIS)

HEALTH (3)

FIRE (0)

REACTIVITY (0)

PERSONAL PROTECTION (C) SAFETY GLASSES  
GLOVES / APRON

SECTION 4B

HEALTH INFORMATION-ACUTE TOXICITY DATA

COMPONENT # ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50

1 RAT: >5.0 G/KG RABBIT: >10.0 G/KG RAT 5040 PPM/8HR

SECTION 4C

HEALTH INFORMATION-OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	(OSHA)		TLV/TWA	(ACGIH)
	PEL/TWA	PEL CEILING		TLV/STEL
1	50 PPM	300 PPM	50 PPM	200 PPM

SECTION 4D

HEALTH INFORMATION - EFFECTS OF EXPOSURE

EFFECTS DESCRIBED IN THIS SECTION ARE BELIEVED NOT TO OCCUR IF EXPOSURES TO THE PRODUCT ARE MAINTAINED BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C. PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

POTENTIAL ROUTE OF ENTRY

INHALATION X

SKIN X

INGESTION X



## **INHALATION:**

MAJOR POTENTIAL ROUTE OF EXPOSURE. 100 PPM FOR 7 HOURS CAUSES MILD IRRITATION TO EYES, NOSE, AND THROAT; FLUSHING OF FACE AND NECK; HEADACHE, SLURRED SPEECH, AND DROWSINESS. 200 PPM FOR 1 HOUR CAUSES THE SAME SYMPTOMS, PLUS DIZZINESS AND LIGHTEADEDNESS. 600 PPM FOR 10 MINUTES CAUSES SENSATION OF NUMBNESS AROUND MOUTH, DIZZINESS, AND INCOORDINATION; 2,000 PPM CAUSES MILD NARCOSIS WITHIN 5 MINUTES. 5,000 PPM CANNOT GENERALLY BE TOLERATED AND CAUSES VERTIGO, NAUSEA, AND MENTAL CONFUSION. UNCONCIOUSNESS OR DEATH CAN OCCUR AT EXTREMELY HIGH CONCENTRATIONS OR ON PROLONGED EXPOSURES ABOVE 500 PPM.

## **SKIN:**

LIQUID IS IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED, ROUGH, AND DRY DUE TO THE REMOVAL OF NATURAL OILS, AND MAY RESULT IN DERMATITIS.

## **EYES:**

LIQUID IS SEVERELY IRRITATING TO THE EYES.

LIQUID CAUSES TEMPORARY PAINFUL BURNING SENSATION, TEARING, GENERAL INFLAMMATION, AND BLURRED VISION.

HIGH VAPOR CONCENTRATION MAY ALSO CAUSE IRRITATION.

## **INGESTION:**

LIQUID IS TOXIC AND MAY BE HARMFUL IF SWALLOWED.

SWALLOWING PRODUCT MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.

ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION PNEUMONITIS AND SYSTEMIC EFFECTS.

## **SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE:**

INTENTIONAL ABUSE, MISUSE, OR OTHER MASSIVE EXPOSURE MAY RESULT IN DIFFICULT BREATHING, NAUSEA, VOMITING AND HEADACHE. COMA AND OR DEATH ARE POSSIBLE.

CENTRAL NERVOUS SYSTEM DEPRESSION RANGES FROM LIGHT HEADEDNESS TO UNCONSCIOUSNESS AND DEATH. CNS DEPRESSION IS EVIDENCED BY GIDDINESS, DIZZINESS AND NAUSEA.

ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING AND CYANOSIS (BLUISH SKIN). IN SEVERE CASES DEATH MAY OCCUR.



SECTION 42

SUPPLEMENTAL HEALTH INFORMATION

IS THE PRODUCT OR A COMPONENT OF THE PRODUCT LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) OR IS IT THE SUBJECT OF A HAZARD EVALUATION SYSTEM AND INFORMATION SERVICE (HESIS) HAZARD ALERT?

COMPONENT NUMBER	NTP CARCINOGEN	OSHA CARCINOGEN	IARC CARCINOGEN	HESIS HAZARD ALERT
1	NO	NO	NO	YES

COMPONENT INFORMATION

PERCHLOROETHYLENE: HAS CAUSED LIVER AND KIDNEY TOXIC EFFECTS IN CHRONICALLY OVER EXPOSED EXPERIMENTAL ANIMALS.

CARCINOGENICITY: THREE STUDIES HAVE BEEN CONDUCTED TO ASSESS THE CARCINOGENIC POTENTIAL OF PERCHLOROETHYLENE IN LABORATORY ANIMAL. IN ONE STUDY, RATS AND MICE WERE EXPOSED BY GAVAGE (FORCE-FED) AT LEVELS OF 500 AND 1000 MG/DG/DAY. INCREASED INCIDENCE OF LIVER TUMORS WERE OBSERVED IN MICE. THE RESULTS OF THE RAT STUDY WERE INCONCLUSIVE DUE TO AN EXCESS IN ANIMAL DEATHS. THE SECOND STUDY INVOLVED RATS EXPOSED TO CONCENTRATIONS UP TO 600 PPM VIA INHALATION, SIX HOURS PER DAY, 5 DAYS PER WEEK FOR ONE YEAR. THE ANIMALS WERE OBSERVED UNTIL THE TIME OF DEATH OR UNTIL THE 31ST MONTH AND STUDIES INDICATE NO STATISTICALLY SIGNIFICANT INCREASE IN TUMORS. THE SIGNIFICANCE OF THE SECOND STUDY HAS BEEN QUESTIONED, SINCE EXPOSURE LASTED FOR ONLY ONE YEAR. A THIRD STUDY CONDUCTED FOR THE NATIONAL TOXICOLOGY PROGRAM (NTP) INVOLVED EXPOSURE OF MICE TO 100 OR 200 PPM AND RATS TO 200 AND 400 PPM FOR SIX HOURS PER DAY, 5 DAYS PER WEEK FOR 2 YEARS. INCREASED INCIDENCE OF LIVER TUMORS WERE OBSERVED IN MICE. IN RATS AN INCREASE IN A RARE KIDNEY TUMOR WAS OBSERVED IN THE MALE RAT, AND BOTH MALES AND FEMALES HAD AN INCREASED INCIDENCE OF MONONUCLEAR CELL LEUKEMIA.

REPRODUCTIVE TOXICITY: STUDIES ON MICE, RATS AND RABBITS HAVE BEEN CONDUCTED TO EVALUATE THE POTENTIAL EFFECTS PERCHLOROETHYLENE MAY HAVE ON REPRODUCTION AND OFFSPRING OF LABORATORY ANIMALS. PERCHLOROETHYLENE HAS BEEN FOUND TO BE EMBRYOTOXIC AND HAS CAUSED DELAYS IN THE DEVELOPMENT OF FETUSES. PERCHLOROETHYLENE HAS NOT CAUSED TERATOGENIC (BIRTH DEFECT) EFFECTS IN EXPERIMENTAL ANIMALS.



## SECTION 3

## EMPLOYEE PROTECTION

### VENTILATION:

MAINTAIN WORKPLACE VAPOR CONCENTRATIONS AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C.

### PROTECTIVE MEASURES FOR MAINTENANCE:

EXERCISE REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. STORE IN A COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. DO NOT PRESSURE PRODUCT OUT OF VESSEL OR TRANSPORT CONTAINER WITH AIR.

### RESPIRATORY PROTECTION:

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION 4C) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

### SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, APRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

### EYE PROTECTION:

USE SAFETY GLASSES. WHERE CONTACT WITH LIQUID IS LIKELY, CHEMICAL GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT WITH THIS MATERIAL MAY CAUSE PAIN, EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY. CONTACT LENSES SHOULD NOT BE WORN.

### HYGIENE:

AVOID CONTACT WITH SKIN AND AVOID BREATHING VAPORS. DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING, DRINKING, OR USING RESTROOM.



## SECTION 6

## EMERGENCY AND FIRST AID

### EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

### SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

### INHALATION:

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

### INGESTION:

DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION. SEE NOTE TO PHYSICIAN.

### NOTE TO PHYSICIAN:

BECAUSE RAPID ABSORPTION MAY OCCUR THROUGH LUNGS IF ASPIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY THE ATTENDING PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

## SECTION 7

## FIRE AND EXPLOSION HAZARDS

FLASH POINT: NONE

FLAMMABLE LIMITS: VOLUME IN AIR UPPER LIMITS: N/A  
LOWER LIMITS: N/A



**EXTINGUISHING MEDIA:**

NON-FLAMMABLE

**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:**

PRESSURE-DEMAND, SELF-CONTAINED RESPIRATORY PROTECTION SHOULD BE PROVIDED FOR FIRE FIGHTERS IN BUILDINGS OR CONFINED AREAS WHERE THIS PRODUCT IS STORED. STORAGE CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH A WATER SPRAY, IN ORDER TO PREVENT PRESSURE BUILD-UP AND RUPTURE.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

THIS PRODUCT IS NONFLAMMABLE AND NONEXPLOSIVE UNDER NORMAL CONDITIONS OF USE. AT HIGH TEMPERATURES, THIS PRODUCT DECOMPOSES TO GIVE OFF HYDROCHLORIC ACID GAS PLUS OTHER TOXIC AND IRRITATING GASSES SUCH AS PHOSGENE. IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, OVER-PRESSURIZATION OF CONTAINERS CAN RESULT IN POSSIBLE RUPTURE OF THE CONTAINER.

**SECTION 8**

**REACTIVITY**

**STABILITY:** THIS PRODUCT IS STABLE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**CONDITIONS AND MATERIALS TO AVOID:**

AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

AVOID CONTACT WITH STRONG ALKALIES SUCH AS SODIUM HYDROXIDE AND CONTACT WITH STRONG MINERAL ACIDS SUCH AS SULFURIC, HYDROCHLORIC AND NITRIC ACIDS.

AVOID CONTACT WITH BARIUM, LITHIUM, MAGNESIUM, AND TITANIUM.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

AT HIGH TEMPERATURES THIS PRODUCT DECOMPOSES TO GIVE OFF HYDROGEN CHLORIDE GAS AND SMALL QUANTITIES OF OTHER TOXIC AND IRRITATING VAPORS, SUCH AS PHOSGENE.



## SECTION 9

## SPILL AND DISPOSAL PRACTICES

### SPILL:

EVACUATE THE AREA, VENTILATE, AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR PROTECTIVE EQUIPMENT) BY MOPPING OR WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH TO SEWER.

### WASTE DISPOSAL:

RECOVERED LIQUIDS MAY BE SENT TO A LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURES.

## SECTION 10

## SPECIAL PRECAUTIONS

### HANDLING AND STORAGE:

HANDLE WITH REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE.

STORE DRUMS IN A COOL PLACE, BUNG UP AND TIGHTLY CLOSED. STORAGE TANKS SHOULD BE ADEQUATELY VENTED FOR FILLING AND PRESSURE EQUALIZATION. VENTS FROM INDOOR TANKS SHOULD TERMINATE OUTDOORS.

USE IN VAPOR DEGREASERS: IF PRODUCT IS USED IN A VAPOR DEGREASER: DO NOT POUR COLD SOLVENT INTO BOILING SOLVENT. A VIOLENT ERUPTION MAY OCCUR SIMILAR TO THE REACTION OF COLD WATER POURED INTO HOT OIL OR GREASE. SEVERE BODY AND FACIAL BURNS AND OR FIRE MAY OCCUR. ADD COLD SOLVENT IN THE MORNING BEFORE DEGREASER START-UP. DO NOT EXCEED RECOMMENDED CLEAN-OUT TEMPERATURE OR OPERATE BELOW RECOMMENDED CLEAN-OUT SPECIFIC GRAVITY. SOLVENT DECOMPOSITION OR AUTO IGNITION OF COMBUSTIBLE CONTAMINANTS MAY OCCUR.



**CLEAN OUT YOUR VAPOR DEGREASER WHEN THE TEMPERATURE OF THE BOILING SOLVENT RISES TO:**

**256 F**

**OR WHEN THE SPECIFIC GRAVITY OF THE BOILING SOLVENT, COOLED TO 25C DROPS TO:**

**1.44@ 25/25 C**

**AVOID USE WITH ALUMINUM: THIS PRODUCT SHOULD NOT BE PACKAGED IN ALUMINUM AEROSOL CANS OR WITH FINELY DIVIDED ALUMINUM OR ITS ALLOYS IN AN AEROSOL CAN. ALUMINUM IS NOT ACCEPTABLE MATERIAL OF CONSTRUCTION FOR PUMPS, MIXERS, FITTINGS, STORAGE TANKS FOR THIS PRODUCT OR FORMULATIONS.**

**WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.**

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**THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHO-CHEM CORPORATION; IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THIS PRODUCT.**



DAY: (213) 928-3371  
EMERGENCY 24 HOURS  
CHEMTREC: 800-455-6115

CHEMICAL FAMILY:

CARCINOGENIC INGREDIENTS/OSHA/NIH/IRAC: NONE

C.A.S. NO.: TEXTURE

TSCA INFORMATION: NOT CURRENTLY LISTED

## SECTION II — HAZARDOUS INGREDIENTS

COMPONENTS	C.A.S. NOS.	TLV/PEL		PERCENT BY WEIGHT/VOLUME
		PPM	mg/m <sup>3</sup>	
HYDROTIC DRY PARAFFIN DISTILLATE CHEM TRTD RD PETROLEUM DISTLT	64742-54-7		5	C50 U
	64742-30-9		5	C50 U

THIS PRODUCT DEFINED AS NON-HAZARDOUS EXCEPT AS STATED ABOVE. DISCLOSURE OF INGREDIENTS AVAILABLE TO PHYSICIAN OR NURSE IN EVENT OF MEDICAL EMERGENCY.

## SECTION III — FIRE AND EXPLOSION HAZARD DATA

HAZARDOUS THERMAL DECOMPOSITION CARBON MONOXIDE AND ASPHYXIANTS	FLAMMABLE LIMITS:	LEL — UEL 0.9 — 7
	FLASH POINT:	ASTM D93 (PMCC) >110 °C < °F
EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATERFOG	DOT INFORMATION:	OIL, N.O.S.

UNUSUAL FIRE AND EXPLOSION HAZARDS: SLIGHTLY COMBUSTIBLE, WHEN HEATED ABOVE FLASH POINT WILL RELEASE FLAMMABLE VAPORS WHICH CAN BURN IN OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO SOURCE OF IGNITION.

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING APPARATUS.

## SECTION IV — PHYSICAL DATA

BOILING RANGE: >200° C		SOLUBILITY: NEG		PH: N/D	
VAPOR PRESSURE: 5 mm Hg 20° C		APPEARANCE AND ODOR: BROWN, OILY LIQUID MILD KEROSENE ODOR			
VAPOR DENSITY	EVAPORATION RATE	SPECIFIC GRAVITY	WEIGHT PER GALLON	% VOLATILE BY VOLUME	
HEAVIER THAN AIR	LESS THAN ETHER	0.861	7.17	NIL	

## SECTION V — REACTIVITY DATA

INCOMPATIBILITY <MATERIALS TO AVOID>: STRONG OXIDIZING AGENTS	
STABILITY: STABLE	CONDITIONS TO AVOID: DO NOT HEAT ABOVE FLASH POINT.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND ASPHYXIANTS	
HAZARDOUS POLYMERIZATION NONE	OCCUPATIONAL EXPOSURE LIMIT TLV = 5mg/m <sup>3</sup> AS OIL MIST

Oil  
Oil 155  
Specialties Company

CONF  
INDEX

E6540

HEALTH  
FIRE

PERSONAL PROTECTION (NFPA)



REACTIVITY



ING OIL 155

R O U T E O F E X P O S U R E	N G	EXCEPT IN VERY SENSITIVE INDIVIDUALS	
	I N H	NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR ON SHORT TERM EXPOSURE	REMOVE FROM CONTAMINATED AREA. APPLY ARTIFICIAL RESPIRATION. IF UNCONCIOUS CONSULT PHYSICIAN
	E C Y O E N	NOT NORMALLY EXPECTED TO CAUSE ANY ILL EFFECTS EXCEPT IN VERY SENSITIVE INDIVIDUALS	FLUSH WITH COPIOUS AMOUNTS OF WATER. IF IRRITATION DEVELOPES CONSULT PHYSICIAN
	A S C K O U I N T E	NOT NORMALLY EXPECTED TO CAUSE ANY ILL EFFECTS EXCEPT IN VERY SENSITIVE INDIVIDUALS	WASH WITH SOAP AND WATER. CONSULT PHYSICIAN IF IRRITATION OR INFLAMMATION DEVELOPES.
	C S C H K O R I N O N I C	PROLONGED AND/OR REPEATED CONTACT MAY PRODUCE MILD SKIN IRRITATION AND INFLAMMATION. PERSONNEL WITH PRE-EXISTING SKIN DISORDER SHOULD AVOID CONTACT.	WEAR PROTECTIVE CLOTHING TO AVOID SKIN CONTACT. CONSULT PHYSICIAN IF IRRITATION OR INFLAMMATION DEVELOPES.

## &lt;DOT&gt; SECTION VII — SPILL OR LEAK PROCEDURES &lt;EPA&gt;

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: STOP FLOW. WIPE OR MOP UP OR ABSORB WITH DIATOMACEOUS EARTH OR OTHER INERT MATERIAL. STORE IN APPROPRIATE CONTAINER FOR DISPOSAL.

## WASTE DISPOSAL METHOD:

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

TRANSPORTATION INFORMATION: CONSULT 49 CFR PARTS 1-300 AND REFER TO SECTION III OF THIS MSDS FOR ADDITIONAL RECOMMENDATIONS CONCERNING PLACARDING.

## SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED

PROTECTIVE GLOVES: RECOMMENDED

EYE PROTECTION: REQUIRED

OTHER PROTECTIVE EQUIPMENT: CHEMICALLY RESISTANT BOOTS AND APRONS RECOMMENDED.

VENTILATION: SUFFICIENT TO MAINTAIN ATMOSPHERE BELOW TLV LIMIT

## SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING OR STORING: AVOID STORAGE NEAR OPEN FLAME OR OTHER SOURCES OF IGNITION.

EXCESSIVE MISTING MAY CAUSE SLIPPERY FLOORS. PROPER FOOTWEAR REQUIRED.

PERSONAL HYGIENE: WASH HANDS WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

OTHER PRECAUTIONS: WASH OR TAKE SHOWER IF GENERAL CONTACT OCCURS. REMOVE OIL-SOAKED CLOTHING AND LAUNDER BEFORE REUSE. DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

APPROVED BY: RICHARD J. EBERHARDT  
LABORATORY MANAGER

DATE: 880805

CODE  
NUMBER

E6540

HEALTH



REACTIVITY

FIRE

PERSONAL PROTECTION (NFPA)



DATE EFFECTIVE..... 07/13/89  
PRODUCT OR TRADE NAME..... 2-PROPANONE  
CHEMICAL FAMILY..... KETONE  
CHEMICAL NAME/SYNONYMS..... ACETONE  
HAZARDOUS INGREDIENTS CAS REGISTRATION #

HAZARD DATA  
ACGIH (TLV/TWA) OSHA (PEL/TWA)

ACETONE # 100% 07-04-1 750 PPM 1000 PPM

#ACUTE ORAL LD ACUTE DERMAL LD50 ACUTE INHALATION LC50  
9.75 G/KG (RAT) 20.0 G/KG (RABBIT) 15,000 PPM/4H (RAT)

#### SECTION 02 PHYSICAL DATA

\*\*\*\*\*  
BOILING POINT(760 MM HG).. 133 DEG. F  
MELTING POINT..... -139 DEG. F  
VAPOR PRESSURE(20 DEG C).. 180 @ 60 DEGR. F. (MM HG)  
VAPOR DENSITY(AIR=1)..... 2.0  
SOLUBILITY IN WATER..... COMPLETE  
APPEARANCE & COLOR..... COLORLESS, MOBILE LIQUID. MILD ODOR.  
SPECIFIC GRAVITY..... 0.8 (60 DEG F)  
EVAPORATION RATE(BU.AC.=1) 5.6

#### SECTION 03 FIRE AND EXPLOSION HAZARD DATA

\*\*\*\*\*  
FLASH POINT..... -15 DEG. F (TCC)  
FLAMMABLE LIMITS (% BY VOL.) - LOWER - 2.5  
HIGHER - 12.8  
EXTINGUISHING MEDIA: USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

#### SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

DANGER EXTREMELY FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL AND ISOLATE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE MIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

COOL FIRE EXPOSED CONTAINERS WITH WATER.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD-UP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

#### SECTION 04 REACTIVITY DATA

\*\*\*\*\*  
STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

#### CONDITIONS AND MATERIALS TO AVOID:

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE.

SOCO-WESTERN CHEM. CORP. 3270 E. WASHINGTON BLVD. LOS ANGELES, CA. 90023  
SW PHONE#... 213-269-0191 SW MSDS#... 5022 2/03/89 PAGE 3

MATERIAL SAFETY DATA SHEET ACETONE



**AVOID HEAT, SPARKS, FLAME AND CONTACT WITH  
PREVENT VAPOR ACCUMULATION.**

**HAZARDOUS DECOMPOSITION PRODUCTS:**

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

**SECTION 05 SPILL, LEAK AND DISPOSAL PROCEDURES**

\*\*\*\*\*  
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

**DANGER** EXTREMELY FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING.

**\*\*LARGE SPILLS\*\*** ISOLATE THE HAZARD AREA AND DENY ENTRY TO UNNECESSARY PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. WATER FOG MAY BE USEFUL IN SUPPRESSING VAPOR CLOUD; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE.

**\*\*SMALL SPILLS\*\*** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

**WASTE DISPOSAL:**

UNDER EPA-RCRA (40 CFR 261.22), IF ACETONE BECOMES A WASTE MATERIAL, IT WOULD BE HAZARDOUS WASTE. HAZARDOUS WASTE NUMBER U002. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

**ENVIRONMENTAL HAZARDS:**

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8602.

**SECTION 06 HEALTH HAZARD DATA**

\*\*\*\*\*  
ROUTES OF EXPOSURE:

**EYE CONTACT:** LIQUID IS SEVERELY IRRITATING TO THE EYES. HIGH VAPOR CONCENTRATIONS ARE ALSO IRRITATING.

**SKIN CONTACT:** LIQUID IS MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

**INHALATION:** HIGH VAPOR CONCENTRATIONS MAY PRODUCE CNS DEPRESSION.

**INGESTION:** MAY PRODUCE CNS DEPRESSION.

**SIGNS AND SYMPTOMS:** IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR



**AGGRAVATED MEDICAL CONDITIONS: PREEXISTING EYE AND SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO ACETONE.**

**SECTION 07 FIRST AID PROCEDURES AND PHYSICIAN NOTES**

**\*\*\*\*\*  
EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**SKIN CONTACT:** FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

**INHALATION:** REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

**INGESTION:** DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30 CC (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

**NOTES TO PHYSICIAN:** IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15 CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS,

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**CONTINENTAL HEAT TREATING**  
**October 19, 1995**  
**Page 1**

**LOS ANGELES COUNTY FIRE DEPT/HRMD/SMU**

**CASE SYNOPSIS**

<b>Date:</b>	<b>October 19, 1995</b>	<b>Log Number:</b>	<b>951668-377</b>
		<b>Project Mgr:</b>	<b>G Baker</b>
		<b>SMU Priority:</b>	<b>III</b>
		<b>HW Generator:</b>	<b>Yes</b>
		<b>Generator #:</b>	<b>606073-101</b>

**Project: CONTINENTAL HEAT TREATING**

**Address: 10643 S. Norwalk Blvd, Santa Fe Springs, CA 90670**

**Contaminants: tetrachloroethylene and trichloroethylene**

**Depth to Ground Water: 35 - 65'      GW contamination: unknown**

**Responsible Party: Continental Heat Treating**  
10643 S. Norwalk Blvd,  
Santa Fe Springs, CA 90670  
Phone #: (310)944-8808  
Contact: James Stull

**Consultant:** Green Environmental, Inc.  
6727 Greenleaf Ave,  
Whittier, CA 90601  
Phone #: (310)698-5338  
Contact: Kent Green

**Case Description:**

On November 3, 1993, a complaint from the site operator of adjacent property to the north (lessee: Mobil Exploration) was received by this Department. The complaint alleged Continental Heat Treating was responsible for all or part of the chlorinated VOC contamination on Mobil's oil production lease property at 10607 S. Norwalk Blvd. The complaint was referred to Enforcement Unit for action on November 4, 1993. No enforcement activity by September 27, 1994, prompted a routine complaint inspection October 6, 1994.

Long-time employees all denied any improper disposal, leaking or spillage of vapor degreasing solvents anywhere on the property. Furthermore, the vapor degreaser had been moved from its original location in the shop. Eventually the old location of the degreaser was established. It appeared that this old location was close enough to the northern property line that leaks, sloppy



**CONTINENTAL HEAT TREATING****October 19, 1995****Page 2**

operations or spills could have migrated offsite despite employees' statements to the contrary. This inspection resulted in NOV #P14042, which included an order to provide a plan for corrective action at the old vapor degreaser location.

A single boring to a depth of 10' immediately adjacent but exterior to the concrete sump of the old industrial vapor degreaser was proposed. Three soil samples were taken as part of a preliminary assessment. The results of these samples are summarized as follows:

**PCE AND TCE SOIL CONTAMINATION IN  $\mu\text{g/Kg}$** 

BORING #	DEPTH (FT)	TRICHLORO-ETHYLENE (TCE)	TETRACHLORO-ETHYLENE (PCE)
B-1	6"	4759 <sup>3</sup>	7514 <sup>3</sup>
B-1	5'	21	290 <sup>3</sup>
B-1	10'	66 <sup>3</sup>	1855 <sup>3</sup>

<sup>3</sup> exceeds 10XMCL; the Los Angeles RWQCB risk-based cleanup standards for TCE and PCE (both of which are  $5\mu\text{g/Kg}$ ) based on the VOC cleanup model.

The maximum TCE and PCE concentrations were 4759 and 7514  $\mu\text{g/Kg}$  respectively and the means were 1615 and 3220  $\mu\text{g/Kg}$  respectively.

No sample exceeded the HBSSL levels as carcinogens (PCE=8,500 and TCE=4,000  $\mu\text{g/Kg}$ ).

The Region IX USEPA residual PRG levels of PCE and TCE allowed (PCE(ind) = 25mg/Kg and PCE(res) = 7mg/Kg; TCE(ind) = 17mg/Kg and TCE(res) = 7.1mg/Kg) in industrial and residential soils were exceeded by PCE in the 6" sample only.

Applying the recent RWQCB model allowing the average attenuation factor of 255XMCL, three of the analyses would exceed the 1.275mg/Kg guideline concentration; PCE at 6" and 10', and TCE at 6".

The results of the preliminary assessment were sufficient documentation of a significant release to require a remedial investigation of the area. A letter was sent to Mr. Stull July 5, 1995, which directed him to determine the extent of the contamination and submit a site mitigation workplan. The workplan was prepared by Green Environmental and starts with a very limited scope investigation of the old vapor degreaser area.



**October 19, 1995**

**Page 3**

**Issues:**

1. How much of the property needs to be evaluated in the RI?
2. Is it prudent to require a GW monitoring well at this juncture?
3. How much of the information (which the 10607 Norwalk Bl cleanup project has developed) could help economize this project?
4. Is it likely that the proposed borings and sampling protocol will define the vertical and lateral extent of the identified contamination?

**Proposed Work Plan:**

A work plan for the subsurface site investigation of the immediate area of the old vapor degreaser sump was received October 11, 1995.

A review of the submittal was completed and the following are missing or substantially defective for a complete property investigation. However, the workplan is directed only at the specified area in the immediate vicinity of the old vapor degreaser location.

- 1) A review of the historical use and existing information on the nature of the site mitigation problem.
- 2) Justification for the use of EPA method 8010 for sample analysis.
- 3) Justification for depth and array of borings and sampling.
- 4) Evaluation of public health and environmental concerns.
- 5) Investigation of hydrology and land use.
- 6) Justification for not boring to groundwater for the purpose of sampling for the known VOC contaminants.
- 7) A health and safety plan for the proposed investigation.
- 8) Justification for not submitting a work plan for at least one groundwater monitoring well, per RWQCB specifications, considering the underlying lithology of the site.



Referred to SMU 6/29/95  
becomes SMU case # 377







Page



or attach business card  
Address \_\_\_\_\_

Phone ( ) \_\_\_\_\_

**HAZARDOUS WASTE MANAGEMENT  
CONTROL PROGRAM**  
Los Angeles County Fire Department  
Division of Forester & Fire Warden

PHL 606073 Code 1070 225.3

DATE:	INITIAL	FINDINGS/REMARKS
12/09/91	(S)	012 - Issued replacement license #153090 was deleted/cancelled by mistake.
4/24/93	GB	copied file for P. G.
<del>9/27/94</del>		<del>have Robert engineer of the case and</del>
<del>10/6/94</del>		<del>wants copy</del>
10/6/94	GA	02 - inspection - part of the plant that the drawing show the original degreaser is different now - has it been a degreaser there (if even) for at least 15 years - I ordered a limited evaluate of site in the vicinity of original degreaser installation only. (10)
11/28/94	GB	Req time extension to 1/20/95 for plan submission is causing consultant problem - granted
1/22/95	GB	- phone mtg - will schedule morning sampling ASAP - approve sampling plan
1/30/95	GB	received sample plan - ok
2/16/95	GB	sampling done 8-30 - 10:00
2/1/95	GB	7' PPR 4500 19.2 7514 T-TRA 7514 Conclusion 5' 21' PPR TR 1 7' 1 - TR 1 66 7' 185



## HAZARDOUS WASTE

CASE NAME Continental Heat Treating



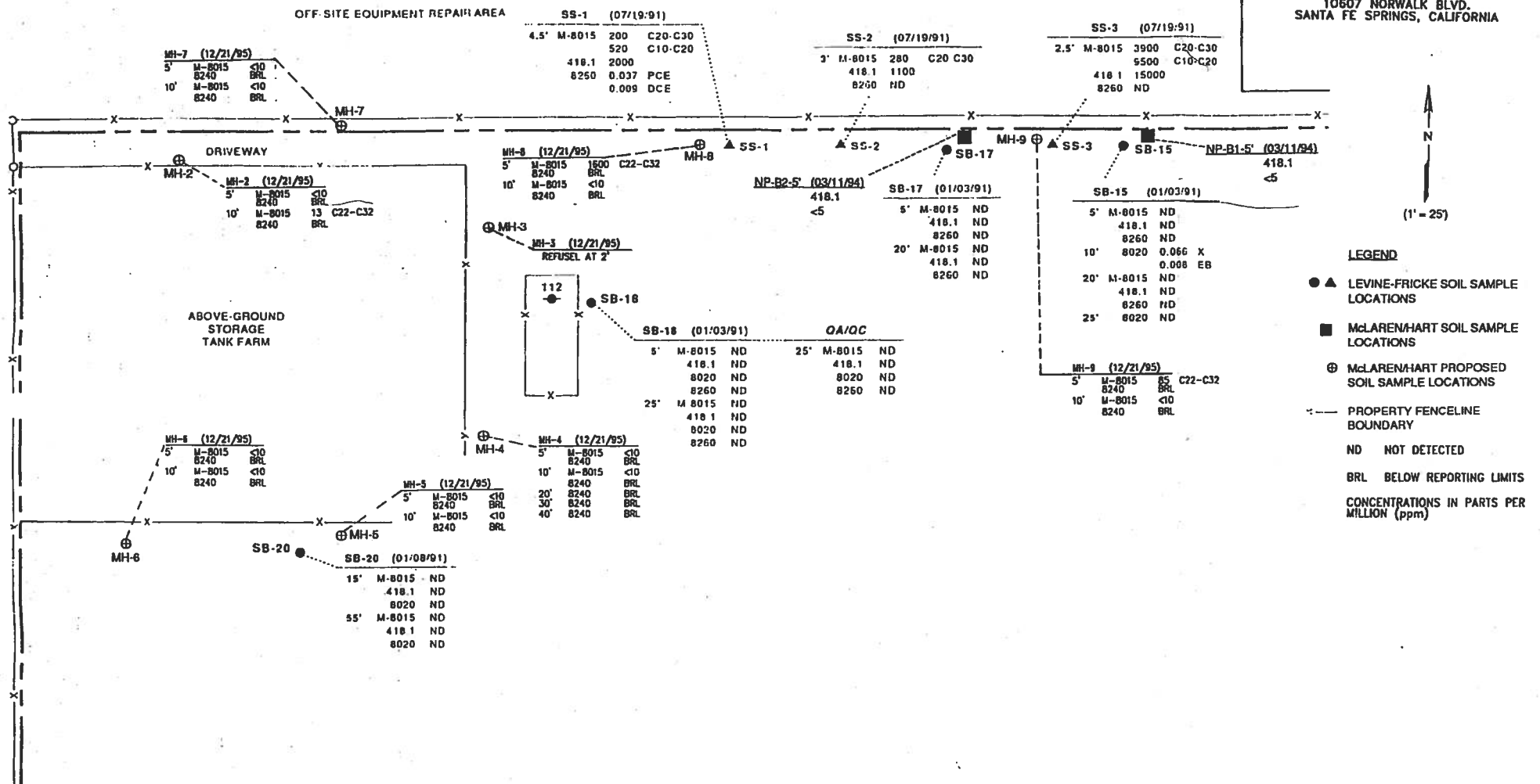
TE	TIME	INITIALS	REMARKS
7/19/89	pm	JO, GP	<p>① Discharge of oil waste both onto asphalt top and onto soil (SW corner near road)</p> <p>② Unlabeled barrels that Mr. <sup>Bastian</sup> <del>Butler</del> indicated contained either PERC or waste oil</p> <p>③ Incomplete manifests (no disposal facility signed copy available)</p> <p>④ Jacks &amp; bungs missing on some oil waste barrels</p> <p>Has valid PHL </p>
7-25-89			<p>Manifest 89485618 - 7/10/89 for removal of oil/absorbents. Mr. Bastian states this was from both the rear area (soil) and asphalt - 4 drums removed. All violations abated. Facility has a continuing problem with mineral oil drag out on the asphalt area.</p>



FIGURE 5  
SOIL SAMPLE ANALYTICAL RESULTS  
JALK FEE SITE  
TANK BATTERY AND NORTHWEST PERIMETER  
10607 NORWALK BLVD.  
SANTA FE SPRINGS, CALIFORNIA



SOURCE: LEVINE-FRICKE, 199'  
JALK FEE PROPERTY

